هيكل مراجعة ريفيل (محلول)

تم تحميل هذا الملف من موقع المناهج الإماراتية

موقع المناهج ⇦ المناهج الإماراتية ⇦ الصف الثامن ⇦ رياضيات ⇦ الفصل الأول ⇦ ملفات متنوعة ⇦ الملف

تاريخ إضافة الملف على موقع المناهج: 2026-11-09 15:41:21

المزيد من مادة رياضيات: ملفات ا كتب للمعلم ا كتب للطالب ا اختبارات الكترونية ا اختبارات ا حلول ا عروض بوربوينت ا أوراق عمل منهج انجليزي ا ملخصات وتقارير ا مذكرات وبنوك ا الامتحان النهائي ا للمدرس

التواصل الاجتماعي بحسب الصف الثامن

صفحة المناهج الإماراتية على فيسبوك | المواد على تلغرام | التربية الاسلامية | اللغة العربية | اللغة الانجليزية | الرياضيات

المزيد من الملفات بحسب الصف الثامن والمادة رياضيات في الفصل الأول

1	تجميع هيكل ريفيل
2	الهيكل الوزاري المعتمد للثامن المتقدم 2027 ريفيل
3	ملزمة هيكل امتحان
4	الهيكل الوزاري المعتمد 2027 ريفيل
5	الهيكل الوزاري المعتمد 2027 بريدج

تحميل تطبيق المناهج للهواتف الذكية

تطبيق المناهج على App Store (آبل) | تطبيق المناهج على Play Google (أندرويد)

وزارة التربية والتعليم
MINISTRY OF EDUCATION



هيكل رياضيات الصف الثامن عام ريفيل
الفصل الأول للعام 2026-2027

اِحجِزْ مَكانَكَ وَاستَعِدَّ لِلْاِمتِحَانِ بِثِقَةٍ كَامِلَةٍ

احصل على الشرح الكامل للصف من خلال:

التواصل والحجز عبر الـ Whatsapp
اضغط على الرقم: 0566991363



للانتقال إلى المواقع
اضغط هنا

للتواصل والحجز

شرح الدروس

انضم للقناة

Mr. Aghead

MR. AGHEAD 0566991363

يمكنكم الحصول على



احصل على الشرح الكامل للصف من خلال:
التواصل والحجز عبر الـ Whatsapp
اضغط على الرقم: 0566991363

لا تتردد في التواصل
معنا قم بمسح الـ QR

MR. AGHEAD 0566991363

Q1: Show how the decimal form of a rational number repeats eventually

page: 77 (1-4)

MCQ - الأسئلة الموضوعية

1. Write -11/16 in decimal form. Then determine whether it is terminating or repeating

A) -0.6875 (Terminating)
B) -0.6875... (Repeating)
C) -0.65 (Terminating)
D) -0.7125 (Terminating)

2. Write 5/33 in decimal form. Then determine whether it is terminating or repeating.

A) 0.1515... = $0.\overline{15}$ (Repeating)
B) 0.1515 (Terminating)
C) 0.15 (Terminating)
D) 0.1616... (Repeating)

MR. AGHEAD 0566991363

3. Write $4\frac{3}{8}$ in decimal form. Then determine whether it is terminating or repeating.

A) 4.375 (Terminating)
B) 4.375... (Repeating)
C) 4.38 (Terminating)
D) 4.333 (Repeating)

4.Write $-9\frac{11}{30}$ in decimal form. Then determine whether it is terminating or repeating.

A) -9.3666... = $-9.3\overline{6}$ (Repeating)
B) -9.366 (Terminating)
C) -9.3666 (Terminating)
D) -9.333... (Repeating)

MR. AGHEAD 0566991363

Q2: Use integer exponents to show repeated multiplication of rational numbers

page: 11 (1-2)

MCQ - الأسئلة الموضوعية

1. Write the expression using exponents: $(-7) \cdot (-7) \cdot 5 \cdot 5 \cdot 5 \cdot 5 =$

A) $(-7)^2 \cdot 5^4$
B) $(-7)^4 \cdot 5^2$
C) $-7^2 \cdot 5^4$
D) $(-7) \cdot 5^5$

2. Write the expression using exponents: $n \cdot n \cdot p \cdot p \cdot r \cdot r \cdot r =$

A) $n^2 \cdot p^3 \cdot r^2$
B) $n^2 \cdot p^2 \cdot r^3$
C) $(n \cdot p \cdot r)^7$
D) $n^3 \cdot p^2 \cdot r^2$

MR. AGHEAD 0566991363

Q3: use the Laws of Exponents to multiply and divide monomials with common bases

page: 23 (1-4)

MCQ - الأسئلة الموضوعية

1. Simplify: $3^8 \cdot 3 =$

A) 3^8
B) 3^9
C) 9^8
D) 3^{24}

2. Simplify: $m^5 \cdot m^2 =$

A) m^7
B) m^{10}
C) $2m^7$
D) m^3

MR. AGHEAD 0566991363

للتواصل اضغط الرقم: 0566991363

احصل على الشرح كاملاً بـ 99 درهم فقط

3. Simplify: $3m^3n^2 \cdot 8mn^3 =$

A) $24m^3n^5$
B) $11m^4n^5$
C) $24m^4n^5$
D) $24m^4n^6$

4. Simplify: $9p^4 \cdot (-8p^2) =$

A) $-72p^6$
B) $-72p^8$
C) $72p^6$
D) $-1p^6$

MR. AGHEAD 0566991363

Q4: use the Laws of Exponents to multiply and divide monomials with common bases

page: 23 (5-8)

MCQ - الأسئلة الموضوعية

1. Simplify: $(b^{12}) / (b^5) =$

A) b^7
B) b^{17}
C) b^2
D) b^{60}

2. Simplify: $(5^5 \cdot 6^3 \cdot 8^{10}) / (5^3 \cdot 6 \cdot 8^9) =$

A) 7200
B) 600
C) $5^2 \cdot 6^2 \cdot 8$
D) Both A and C

MR. AGHEAD 0566991363

للتواصل اضغط الرقم: 0566991363

احصل على الشرح كاملاً بـ 99 درهم فقط

3. A publisher sells 10^6 copies of a science fiction book and 10^3 copies of a mystery book. How many times as many science fiction books were sold?

A) 10^3 (1,000 times)
B) 10^9 times
C) 3 times
D) 300 times

4. Simplify: $(45x^{15}) / (9x^{10}) =$

A) $5x^5$
B) $5x^{25}$
C) $36x^5$
D) $5x^{1.5}$

MR. AGHEAD 0566991363

Q5: Use the Power of a Power Property and the Power of a Product Property to simplify expressions with integer exponents, page: 31 (1-6)

MCQ - الأسئلة الموضوعية

1. Simplify: $(7^2)^3$ =

A) 7^5
B) 7^6
C) 7^8
D) 49^3

2. Simplify: $(8^3)^3$ =

A) 8^6
B) 8^9
C) 8^1
D) 24^3

3. Simplify: $(d^7)^6$ =

A) d^{13}
B) d^{42}
C) d^7
D) d^6

MR. AGHEAD 0566991363

4. Simplify: $(z^7)^3$ =

A) z^{10}
B) z^{21}
C) z^4
D) z^{24}

5. Simplify: $(2m^5)^6$ =

A) $12m^{30}$
B) $64m^{30}$
C) $64m^{11}$
D) $2m^{30}$

6. Simplify: $(7a^5b^6)^4$ =

A) $2{,}401\ a^{20}\ b^{24}$
B) $28\ a^{20}\ b^{24}$
C) $2{,}401\ a^9\ b^{10}$
D) $343\ a^{20}\ b^{24}$

MR. AGHEAD 0566991363

Q6: Write very large and very small numbers using scientific notation, page: 53 (1-6)

الأسئلة الموضوعية - MCQ

1. Write in standard form: 1.6×10^3 =

A) 160
B) 1,600
C) 16,000
D) 0.0016

2. Write in standard form: 1.49×10^{-7} =

A) 0.000000149
B) 0.00000149
C) 14,900,000
D) 0.0000000149

3. A calculator shows 8.3E-6. Write this number in standard form:

A) 0.0000083
B) 0.000083
C) 8,300,000
D) 0.00000083

للتواصل اضغط الرقم: 0566991363

احصل على الشرح كاملاً بـ 99 درهم فقط

4. A calculator shows 7E11. Write this number in standard form:

A) 70,000,000,000
B) 7,000,000,000
C) 700,000,000,000
D) 0.00000000007

5. Write in scientific notation: 2,204,000,000 =

A) 2.204×10^{9}
B) 22.04×10^{8}
C) 2.204×10^{8}
D) 2.204×10^{10}

6. Write in scientific notation: 0.0000000642 =

A) 6.42×10^{-8}
B) 6.42×10^{-7}
C) 64.2×10^{-9}
D) 6.42×10^{8}

MR. AGHEAD 0566991363

Q7: Use square and cube roots to solve equations involving perfect squares and cubes, page: 89 (8-10)

MCQ - الأسئلة الموضوعية

8. A basin of a water fountain is cube shaped and has a volume of 91.125 cubic feet. Solve $s^3 = 91.125$ to find the length s of one side of the basin. (Example 8)

3.5 feet (A
4.5 feet (B
5.5 feet (C
9.5 feet (D

D	C	B	A

9. Moesha has 196 pepper plants that she wants to plant in a square formation. How many pepper plants should she plant in each row?

12 plants (A
13 plants (B
14 plants (C
16 plants (D

D	C	B	A

MR. AGHEAD 0566991363

للتواصل اضغط الرقم: 0566991363

احصل على الشرح كاملاً بـ 99 درهم فقط

10. Equation Editor What is the value of p in the equation shown?

$p^3 = -0.027$



0.3 (A

-0.03 (B

-0.3 (C

-0.9 (D

D	C	B	A

MR. AGHEAD 0566991363

Q8: Find square and cube roots

page: 89 (1-7)

الأسئلة الموضوعية - MCQ

1.Simplify using rational numbers: √(361)

A) 19
B) 17
C) 21
D) 18

2.Simplify using rational numbers: ±√(1.96)

A) ±1.6
B) ±1.4
C) 1.4
D) -1.4

3. Simplify using rational numbers: -√(9/16)

A) -3/4
B) 3/4
C) -9/16
D) -3/8

MR. AGHEAD 0566991363

4.Simplify using rational numbers: √(-441)

A) 21
B) -21
C) ±21
D) (Not possible / Not a real number)

5.Solve $m^2 = 0.04$

A) m = ±0.2
B) m = 0.2
C) m = -0.2
D) m = ±0.02

6.Simplify using rational numbers: $\sqrt[3]{(343)}$

A) 6
B) 9
C) 7
D) 8

7.Simplify using rational numbers: $\sqrt[3]{(-512)}$

A) -8
B) 8
C) -16
D) Not possible

MR. AGHEAD 0566991363

Q9: Identify irrational numbers and name the set(s) of real numbers to which a given real number belongs

page: 99 (1-11)

MCQ - الأسئلة الموضوعية

1. Identify whether -√(10) is rational or irrational.

A) (Irrational)
B) (Rational)

2. Identify whether -3/11 is rational or irrational.

A) (Irrational)
B) (Rational)

3. Identify whether $0.\overline{3}$ is rational or irrational.

A) (Irrational)
B) (Rational)

4. Identify whether √(81) is rational or irrational.

A) (Irrational)
B) (Rational)

5. Identify whether 0 is rational or irrational.

A) (Irrational)
B) (Rational)

MR. AGHEAD 0566991363

للتواصل اضغط الرقم: 0566991363

احصل على الشرح كاملاً بـ 99 درهم فقط

6. Identify whether $\sqrt{(2)}/2$ is rational or irrational.

A) (Irrational)
B) (Rational)

7. Identify whether $\sqrt{7}$ is rational or irrational.

A) (Irrational)
B) (Rational)

8. Identify whether $\sqrt{(2)}/\sqrt{(2)}$ is rational or irrational.

A) (Irrational)
B) (Rational)

9. Select all the sets of numbers to which $\sqrt[3]{343}$ belongs.

A) Rational
B) Irrational
C) Integer
D) Whole
E) Natural

10. Select all the sets of numbers to which 7/ $\sqrt{2}$ belongs

A) Rational
B) Irrational
C) Integer
D) Whole
E) Natural

MR. AGHEAD 0566991363

11. Select all the sets of numbers to which -7/1 belongs.

A) Rational
B) Irrational
C) Integer
D) Whole
E) Natural

MR. AGHEAD 0566991363

Q10: Solve multi-step linear equations with rational coefficients by using the Distributive Property and combining like terms page: 149 (1-4)

MCQ - الأسئلة الموضوعية

Solve each equation. Check your solution.

1. $-g + 2(3 + g) = -4(g + 1)$

A	g = -2
B	g = 2
C	g = 1
D	g = 4

2. $-8 - x = -3(2x - 4) + 3x$

A	x = 5
B	x = -5
C	x = 10
D	x = -10

MR. AGHEAD 0566991363

3. $0.6(4 - 2x) = 20.5 - (3x + 10)$

A	x = 5.5
B	x = -5.5
C	x = 4.5
D	x = -4.5

4. $12 - (4y + 8) = 0.5(8y - 16)$

A	y = -1.5
B	y = 1.5
C	y = 0.15
D	y = -0.15

MR. AGHEAD 0566991363

للتواصل اضغط الرقم: 0566991363

احصل على الشرح كاملاً بـ 99 درهم فقط

Q11: Write and solve multi-step linear equations with rational coefficients by using the Distributive Property and combining like terms page: 152-153 (example 1+2)

الأسئلة الموضوعية - MCQ

Mrs. Hill is designing a rectangular vegetable garden for her backyard. The width of the garden is $11\frac{1}{2}$ feet shorter than twice its length.

If the perimeter of the garden is 37 feet, what is the length of the garden? Write and solve an equation. Check your solution.

1. Which equation models the perimeter of the garden, where ℓ represents the length in feet?

A) $37 = \ell + \left(2\ell - 11\frac{1}{2}\right)$

B) $37 = 2\ell + 2\left(2\ell - 11\frac{1}{2}\right)$

C) $37 = 2\ell + 2\left(\ell - 11\frac{1}{2}\right)$

D) $37 = 2\ell + \left(2\ell + 11\frac{1}{2}\right)$

D	C	B	A

2. What is the length of the garden after solving the equation?

A) 8.5 feet

B) 10 feet

C) 12 feet

D) 15 feet

D	C	B	A

MR. AGHEAD 0566991363

للتواصل اضغط الرقم: 0566991363

احصل على الشرح كاملاً بـ 99 درهم فقط

3. What is the width of the garden?

A) 8.5 feet
B) 10 feet
C) 7 feet
D) 9.5 feet

D	C	B	A

The hallway in Oscar's house is in the shape of a rectangle. The length of the hallway is $\frac{1}{2}$ foot longer than twice its width. The perimeter of the hallway is 31 feet.

Part A

Which equation(s) can be used to find the width w of the hallway? Select all that apply.

- ☐ $31 = \frac{1}{2} + 4w$
- ● $31 = 1 + 6w$
- ☐ $31 = 2 + 2w$
- ● $31 = 2\left(\frac{1}{2} + 2w\right) + 2w$
- ☐ $31 = \frac{1}{2} + 2w$
- ● $31 = 2\left(\frac{1}{2} + 3w\right)$

Part B

What is the width of the hallway?

A) 4 feet
B) 5 feet
C) 6.5 feet
D) 8 feet

D	C	B	A

للتواصل اضغط الرقم: 0566991363

احصل على الشرح كاملاً بـ 99 درهم فقط

Mr. Murphy's class of 20 students is going on a field trip to the science center. They will also watch the 3-D movie. Mrs. Todd's class of 15 students is going on a field trip to the art museum and will take the audio tour. Admission to the art museum is 2.5 times that of the science center's entry fee, as shown in the table.

If the total cost is the same at both the science center and the art museum, what is the entry fee per student to the science center? Check your solution.

Science Center	Art Museum
Entry fee: $\$x$ per student	Admission: $\$2.5x$ per student
3-D movie: \$2.50 per student	Audio Tour: \$1 per student

1. If the total cost is the same at both the science center and the art museum, which equation correctly models the total cost?

A) $15(x + 2.50) = 20(2.5x + 1)$

B) $20(x + 2.50) = 15(2.5x + 1)$

C) $20x + 2.50 = 15(2.5x) + 1$

D) $20(x + 1) = 15(2.5x + 2.50)$

D	C	B	A

MR. AGHEAD 0566991363

للتواصل اضغط الرقم: 0566991363

احصل على الشرح كاملاً بـ 99 درهم فقط

2. What is the entry fee per student (x) to the science center?

A) $1.50
B) $2.50
C) $2
D) $3.50

D	C	B	A

3. What is the admission fee per student to the art museum?

A) $2
B) $4
C) $5
D) $6.50

D	C	B	A

4. What is the total cost for each class trip?

A) $50.00
B) $75.00
C) $90.00
D) $120.00

D	C	B	A

للتواصل اضغط الرقم: 0566991363

احصل على الشرح كاملاً بـ 99 درهم فقط

Check

A group of 6 friends went to a basketball tournament game. They each bought a ticket for x dollars and spent $8.50 each on snacks. Another group of 4 friends went to the championship game and paid twice as much for each of their tickets as the first group. The group of 4 friends also spent $6.50 each on snacks.

Part A

Which equation can be used to find the cost of each ticket for the group of 6 friends?

Ⓐ $8.50(x + 6) = 4(2x + 6.50)$

Ⓑ $6(x + 8.50) = 2(4x + 6.50)$

Ⓒ $8.50(x + 6) = 6.50(2x + 4)$

● $6(x + 8.50) = 4(2x + 6.50)$

Part B

What is the cost of each ticket for the group of 6 friends?

A) $10.00
B) $11.25
C) $12.50
D) $15.00

D	C	B	A

MR. AGHEAD 0566991363

Q12: Identify the number of solutions of a linear equation in one variable by simplifying each side and comparing coefficients and constants page: 159-167 (learn) (1-4)

الأسئلة الموضوعية - MCQ

1. How many solutions does the equation $3x + 4 = 3x$ have?

A) One solution, $x = 4$

B) One solution, $x = 0$

C) Infinitely many solutions

D) No solution

D	C	B	A

2. What is the solution to the equation $2x = 20$?

A) One solution, $x = 10$

B) One solution, $x = 40$

C) No solution

D) Infinitely many solutions

D	C	B	A

3. How many solutions does the equation $4x + 2 = 4x + 2$ have?

A) No solution

B) One solution, $x = 2$

C) Infinitely many solutions

D) One solution, $x = 0$

D	C	B	A

للتواصل اضغط الرقم: 0566991363

احصل على الشرح كاملاً بـ 99 درهم فقط

Solve each equation. Determine whether the equation has one solution, no solution, or infinitely many solutions.

1. $4(x - 8) + 12 = 2(2x - 9)$

A	one solution
B	no solution
C	infinitely many solution

2. $3(2k - 5) = 6(k - 4) + 9$

A	one solution
B	no solution
C	infinitely many solution

3. $-4y - 3 = \frac{1}{3}(12y - 9) - 8y$

A	one solution
B	no solution
C	infinitely many solution

4. $6(3 - 5w) = 5(4 - 2w) - 20w$

A	one solution
B	no solution
C	infinitely many solution

MR. AGHEAD 0566991363

Q13: Identify the number of solutions of a linear equation in one variable by simplifying each side and comparing coefficients and constants page: 159-167 (learn) (6-4)

الأسئلة الموضوعية - MCQ

1. How many solutions does the equation $3x + 4 = 3x$ have?

A) One solution, $x = 4$

B) One solution, $x = 0$

C) Infinitely many solutions

D) No solution

D	C	B	A

2. What is the solution to the equation $2x = 20$?

A) One solution, $x = 10$

B) One solution, $x = 40$

C) No solution

D) Infinitely many solutions

D	C	B	A

3. How many solutions does the equation $4x + 2 = 4x + 2$ have?

A) No solution

B) One solution, $x = 2$

C) Infinitely many solutions

D) One solution, $x = 0$

D	C	B	A

للتواصل اضغط الرقم: 0566991363

احصل على الشرح كاملاً بـ 99 درهم فقط

4. 6(3 - 5w) = 5(4 - 2w) - 20w

A	one solution
B	no solution
C	infinitely many solution

Complete each equation so that it has infinitely many solutions.

5. $2x - 7(x + 10) = \square x - \square$

A	-5, 70
B	5, -70
C	-5, -70
D	-7, -50

6. $12x - x + 8 + 3x = \square x + \square$

A	16, 8
B	12, 8
C	14, 8
D	14, -8

MR. AGHEAD 0566991363

Q14: Write linear equations in one variable with rational coefficients and use the properties of equality to solve them page: 143 (1-4)

MCQ - الأسئلة الموضوعية

1. Marko has 45 comic books in his collection, and Tamara has 61 comic books. Marko buys 4 new comic books each month and Tamara buys 2 comic books each month. After how many months will Marko and Tamara have the same number of comic books?

A	6 months
B	4 months
C	8 months
D	2 months

2. A fish tank has 150 gallons of water and is being drained at a rate of $\frac{1}{2}$ gallon each second. A second fish tank has 120 gallons of water and is being filled at a rate of $\frac{1}{4}$ gallon each second. After how many seconds will the two fish tanks have the same amount of water?

A	10 second
B	15 second
C	20 second
D	40 second

MR. AGHEAD 0566991363

للتواصل اضغط الرقم: 0566991363

احصل على الشرح كاملاً بـ 99 درهم فقط

3. Shipping Company A charges 14$ plus 2.25$ a pound to ship overnight packages. Shipping Company B charges 20$ plus 1.50$ a pound to ship an overnight package. For what weight is the charge the same for the two companies?

A	4
B	6
C	8
D	10

4. A bicycle rental company charges a 20$ fee plus 5.50$ per hour to rent a bicycle. Another bicycle rental company charges a 15$ fee plus 6.50$ per hour to rent a bicycle. For what number of hours is the cost for the rental the same?

A	5 h
B	6 h
C	7 h
D	8 h

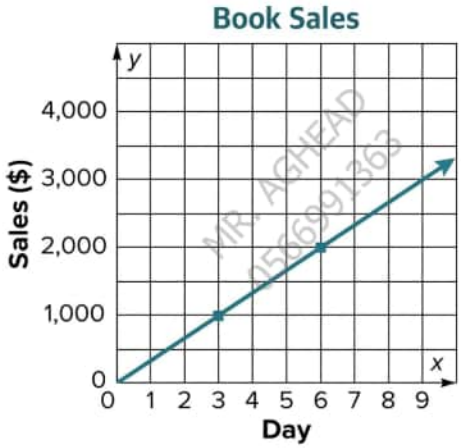
MR. AGHEAD 0566991363

Q15: Graph and compare proportional relationships using words, equations, and tables and interpret the unit rate as the slope of the line page: 189 (1&2)

MCQ - الأسئلة الموضوعية

1. The graph shows the amount of book sales over several days. Find and interpret the slope. Then find the unit rate and compare it to the slope. (Example 1)

A	The slope is $\frac{1000}{3}$ and unit rate is 333.3 both the unit rate and the slope have the same value.
B	The slope is $\frac{1000}{3}$ and unit rate is 100.3 and the slope is greater than the unit rate
C	The slope is $\frac{100}{3}$ and unit rate is 333.3 but the slope has a different value.
D	The slope is $\frac{3}{1000}$ and unit rate is 333.3 both the unit rate and the slope have the same value.



MR. AGHEAD 0566991363

للتواصل اضغط الرقم: 0566991363

احصل على الشرح كاملاً بـ 99 درهم فقط

2. hours is a proportional of renting a snowmobile for x 8. The cost y Graph the relationship. This can be represented by the equation y = 33.75x equation. Then find and interpret the slope. (Example 2)

A	slope is $\frac{5}{1}$
B	slope is 4
C	slope is $\frac{33.75}{1}$
D	slope is $\frac{33.75}{10}$



MR. AGHEAD 0566991363

احصل على الشرح كاملاً بـ 99 درهم فقط

للتواصل اضغط الرقم: 0566991363

Q16: Identify the slope of a line and interpret it as the rate of change within the context of the problem

page: 191 (learn)

MCQ - الأسئلة الموضوعية

1. Which term describes the steepness of a line or the rate of change between any two points on a line?

A) Intercept

B) Slope

C) Coordinate

D) Equation

D	C	B	A

2. In mathematics, how is the slope of a line defined?

A) $\text{slope} = \frac{\text{run}}{\text{rise}}$

B) $\text{slope} = \text{rise} \times \text{run}$

C) $\text{slope} = \frac{\text{rise}}{\text{run}}$

D) $\text{slope} = \text{rise} - \text{run}$

D	C	B	A

MR. AGHEAD 0566991363

3. In a linear relationship, what can be said about the slope?

A) It increases as x increases

B) It is always constant

C) It changes at every point

D) It must always be equal to zero

D	C	B	A

4. A line that slants downward from left to right has a:

A) Positive slope

B) Negative slope

C) Slope of zero

D) Undefined slope

D	C	B	A

MR. AGHEAD 0566991363

Q17: Identify the slope of a line and interpret it as the rate of change within the context of the problem

page: 191,203 (learn) + (1-6)

الأسئلة الموضوعية - MCQ

1. Which term describes the steepness of a line or the rate of change between any two points on a line?

A) Intercept
B) Slope
C) Coordinate
D) Equation

D	C	B	A

2. In mathematics, how is the slope of a line defined?

A) $\text{slope} = \frac{\text{run}}{\text{rise}}$
B) $\text{slope} = \text{rise} \times \text{run}$
C) $\text{slope} = \frac{\text{rise}}{\text{run}}$
D) $\text{slope} = \text{rise} - \text{run}$

D	C	B	A

MR. AGHEAD 0566991363

3. In a linear relationship, what can be said about the slope?

A) It increases as x increases

B) It is always constant

C) It changes at every point

D) It must always be equal to zero

D	C	B	A

4. A line that slants downward from left to right has a:

A) Positive slope

B) Negative slope

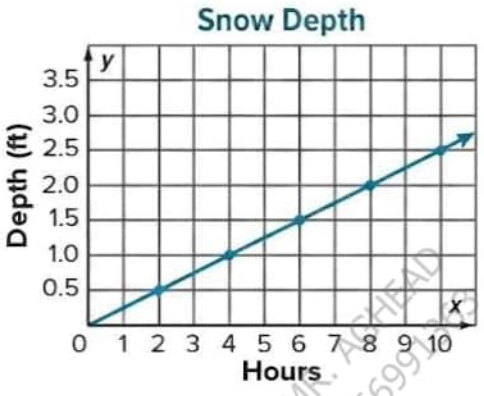
C) Slope of zero

D) Undefined slope

D	C	B	A

1. The graph shows the depth in feet of snow after each two-hour period during a snowstorm. Find the slope of the line. (Example 1)

A	0.25
B	0
C	-20
D	-1



للتواصل اضغط الرقم: 0566991363

احصل على الشرح كاملاً بـ 99 درهم فقط

2. The graph shows the amount of money left after buying video games. Find the slope of the line. (Example 2)

A	0.25
B	0
C	-20
D	-1



3. The points given in the table lie on a line. Find the slope of the line. (Example 3)

x	−1	2	5	8
y	3	−1	−5	−9

A	$-\frac{3}{2}$
B	$-\frac{3}{4}$
C	$-\frac{4}{3}$
D	$\frac{1}{2}$

Find the slope of the line that passes through each pair of points. (Examples 4–6)

4. M(3, 5), N(2, 6)

A	0.25
B	0
C	-20
D	-1

للتواصل اضغط الرقم: 0566991363

احصل على الشرح كاملاً بـ 99 درهم فقط

5. G(-3, 2), H(7, 2)

A	0.25
B	0
C	-20
D	-1

6. E(6, 8), F(6, -2)

A	0
B	1
C	-2
D	The slope is undefined

MR. AGHEAD 0566991363

احصل على الشرح كاملاً بـ 99 درهم فقط

للتواصل اضغط الرقم: 0566991363

Q18: Write equations of the form y = mx + b when given a table, graph, or verbal description

page: 235 (1-6)

MCQ - الأسئلة الموضوعية

Identify the slope and y-intercept of the graph of each equation (Example 1)

1. $y = \frac{1}{2}x - 5$

A	$m = \frac{1}{2}$, b = -5
B	m = 3, b = -1
C	$m = \frac{1}{2}$, b = -3
D	$m = \frac{1}{2}$, b = -1

2. y = 3x - 1

A	$m = \frac{1}{2}$, b = -5
B	m = 3, b = -1
C	$m = \frac{1}{2}$, b = -3
D	$m = \frac{1}{2}$, b = -1

MR. AGHEAD 0566991363

للتواصل اضغط الرقم: 0566991363

احصل على الشرح كاملاً بـ 99 درهم فقط

Write the equation of a line in slope-intercept form with each slope and y-intercept. (Example 2).

3. slope = $\frac{1}{3}$, y-intercept = 4

A	$y = \frac{1}{3}x + 4$
B	$y = \frac{3}{1}x - 4$
C	$y = \frac{2}{3}x + 4$
D	$y = \frac{3}{5}x - 4$

4. slope = $\frac{3}{2}$ .y-intercept = -3

A	$y = \frac{1}{3}x + 3$
B	$y = \frac{2}{3}x - 3$
C	$y = \frac{3}{2}x - 3$
D	$y = \frac{3}{5}x - 3$

5. slope = 4, y-intercept = -2

A	y = -x +6
B	y = 4x -2
C	y = 2x – 3
D	y = -65x +420

للتواصل اضغط الرقم: 0566991363

احصل على الشرح كاملاً بـ 99 درهم فقط

6. slope = -1, y-intercept = 6

A	y = -x +6
B	y = 4x -2
C	y = 2x – 3
D	y = -65x +420

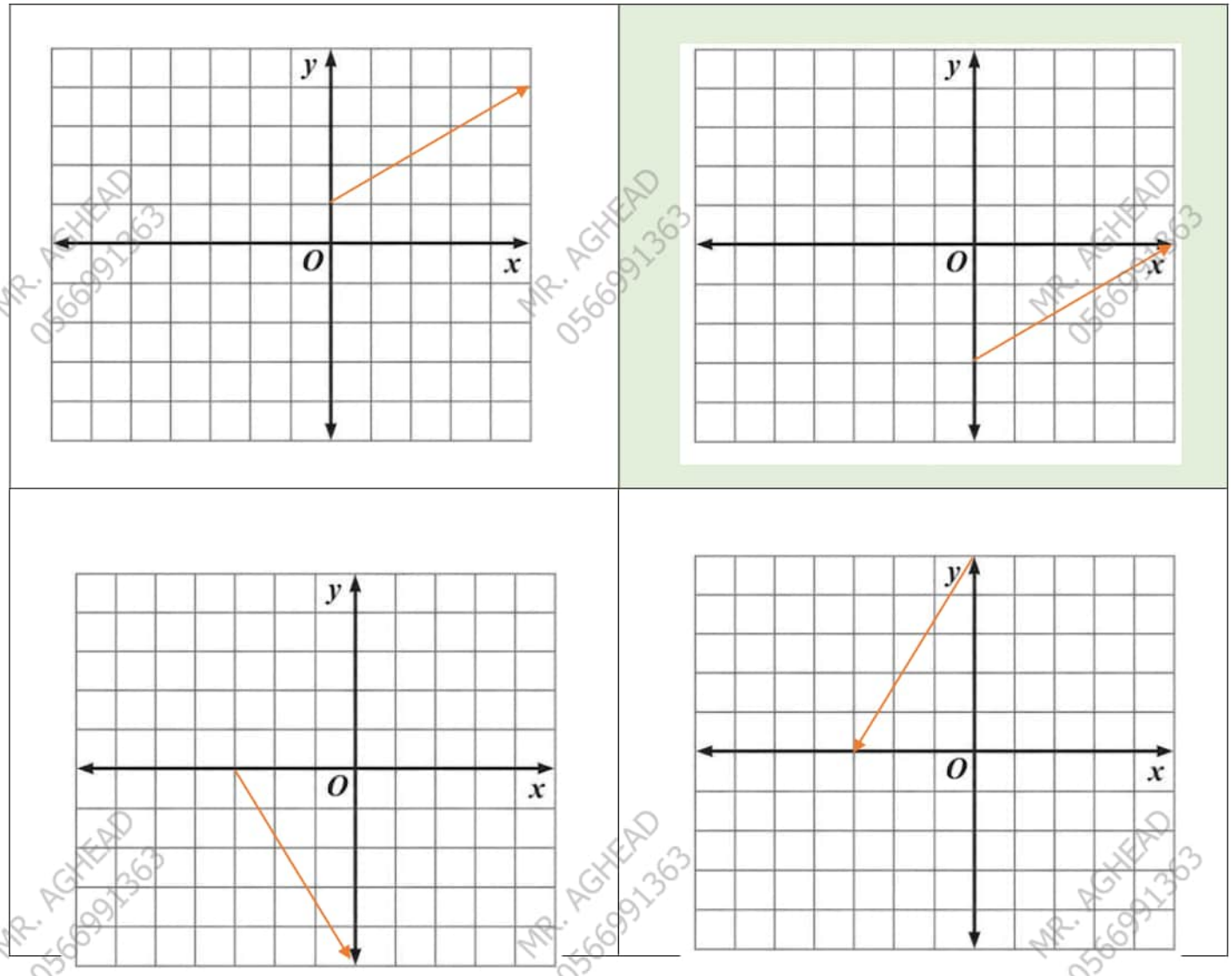
MR. AGHEAD 0566991363

Q19: Interpret the slope and y-intercept of a line from an equation of the form y = mx + b in order to graph the line on the coordinate plane page: 245 (1-6)

الأسئلة الموضوعية - MCQ

Graph each equation using the slope and y-intercept. (Example 1)

1. $y = \frac{3}{5}x - 3$

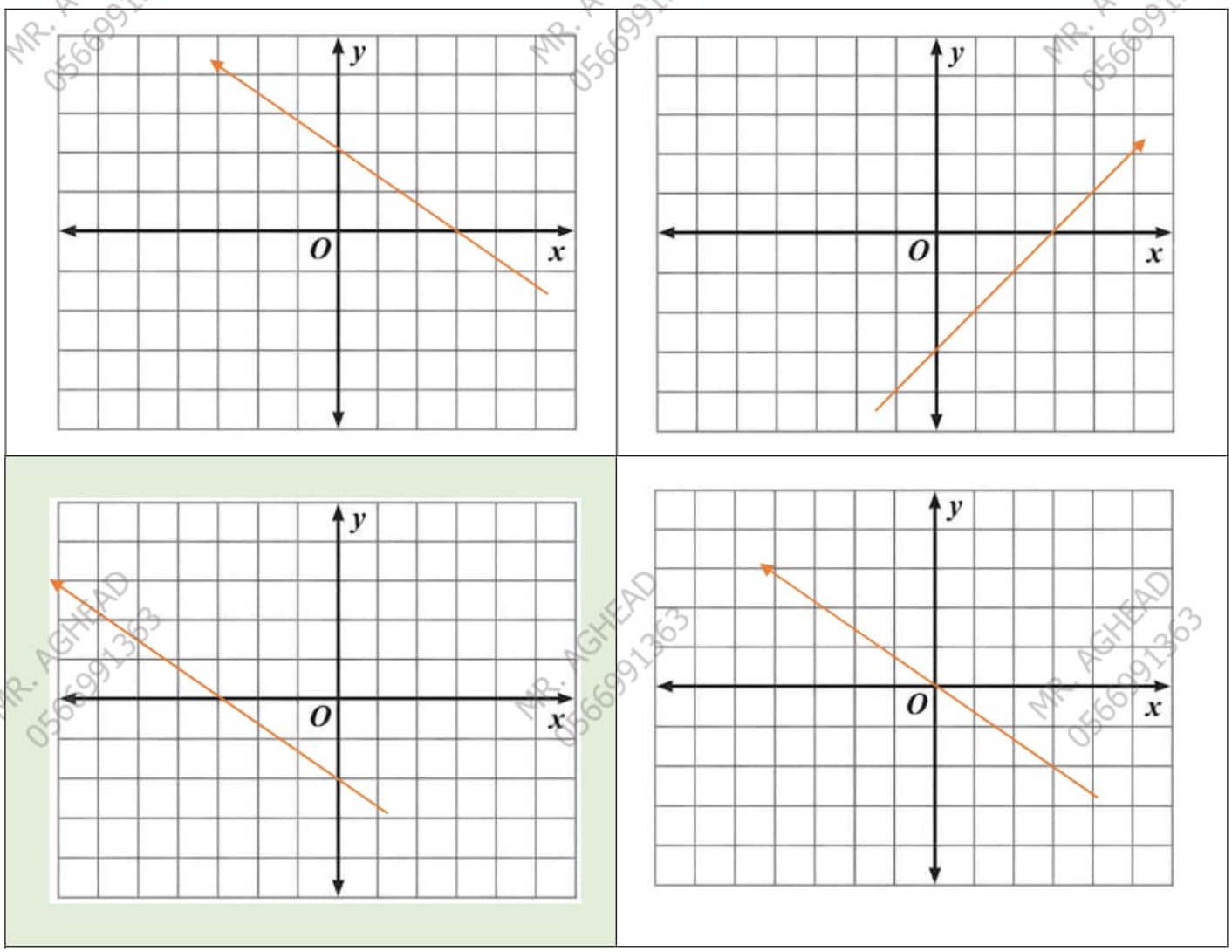


MR. AGHEAD 0566991363

احصل على الشرح كاملاً بـ 99 درهم فقط

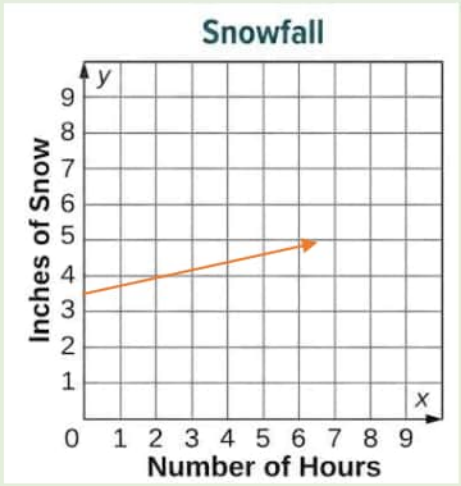
للتواصل اضغط الرقم: 0566991363

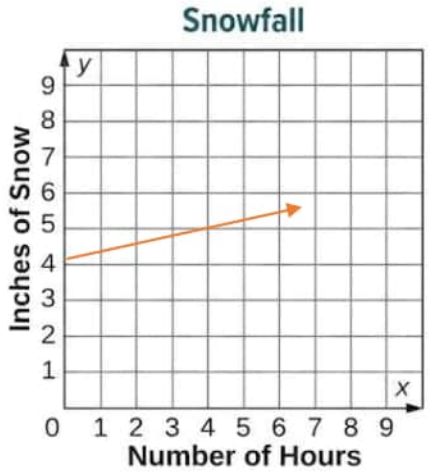
2. $y = -\frac{2}{3}x - 2$

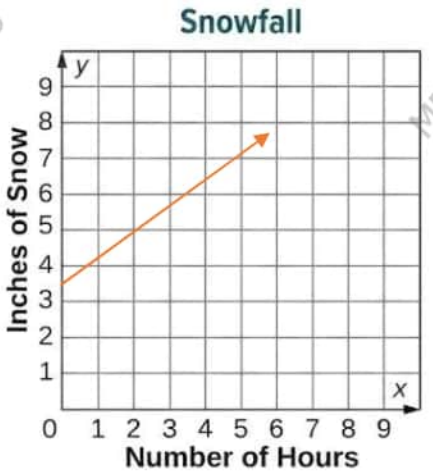


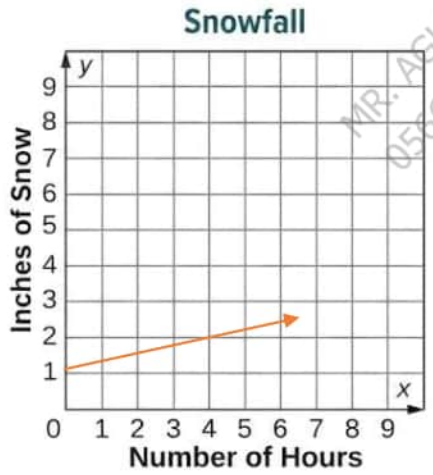
MR. AGHEAD 0566991363

3. The equation y = 1/5x + 3.5 can be used to find the amount of accumulated snow y in inches' x hours after 5 P.M. on a certain day. Graph this equation. (Example 2)







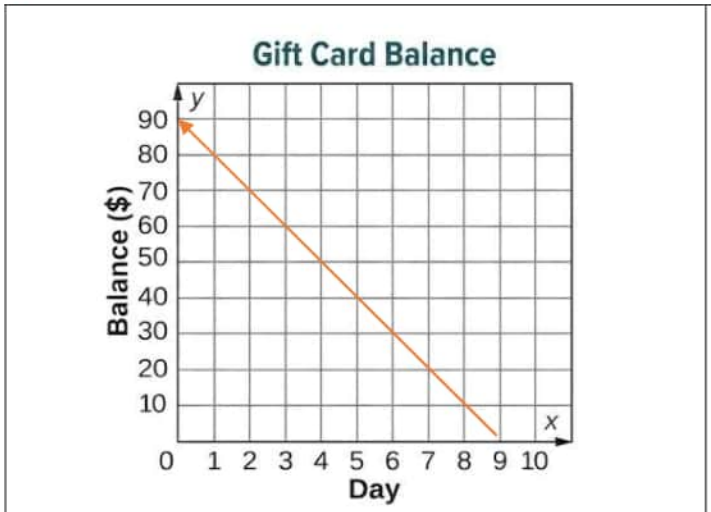


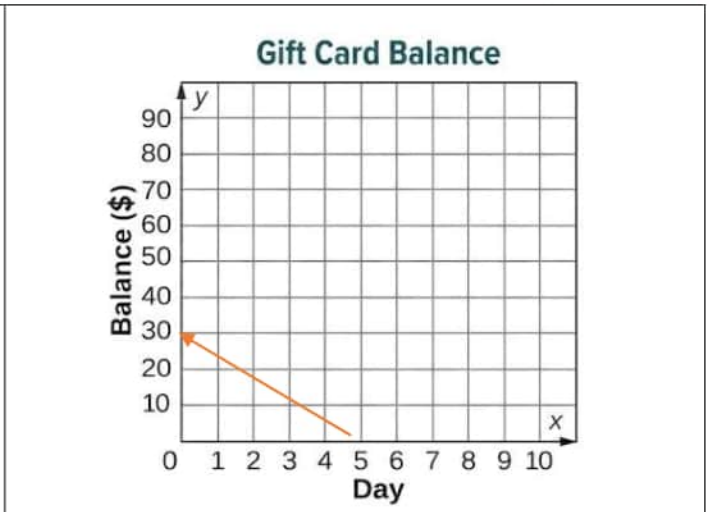
MR. AGHEAD 0566991363

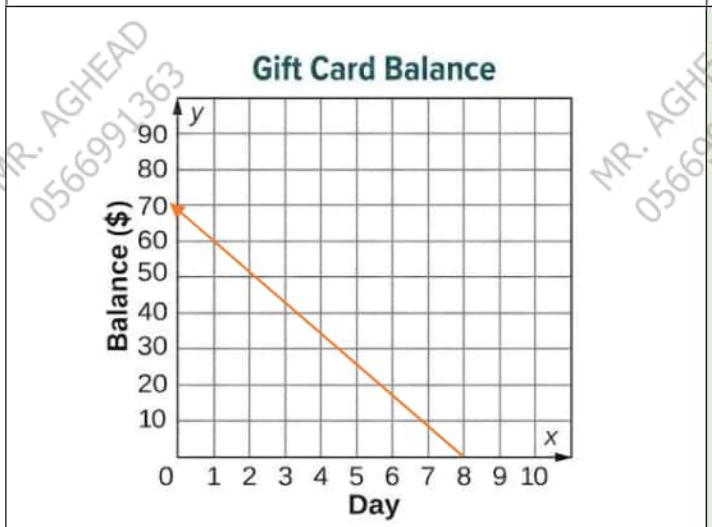
احصل على الشرح كاملاً بـ 99 درهم فقط

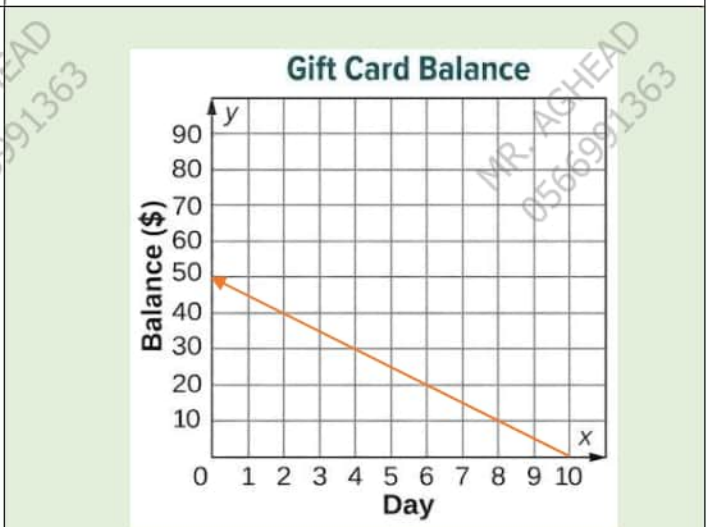
للتواصل اضغط الرقم: 0566991363

4. Alliyah's gift card balance can be represented by the equation $y = -5x + 50$ where y represents the gift card balance after x number of days. Graph this equation. (Example 2)









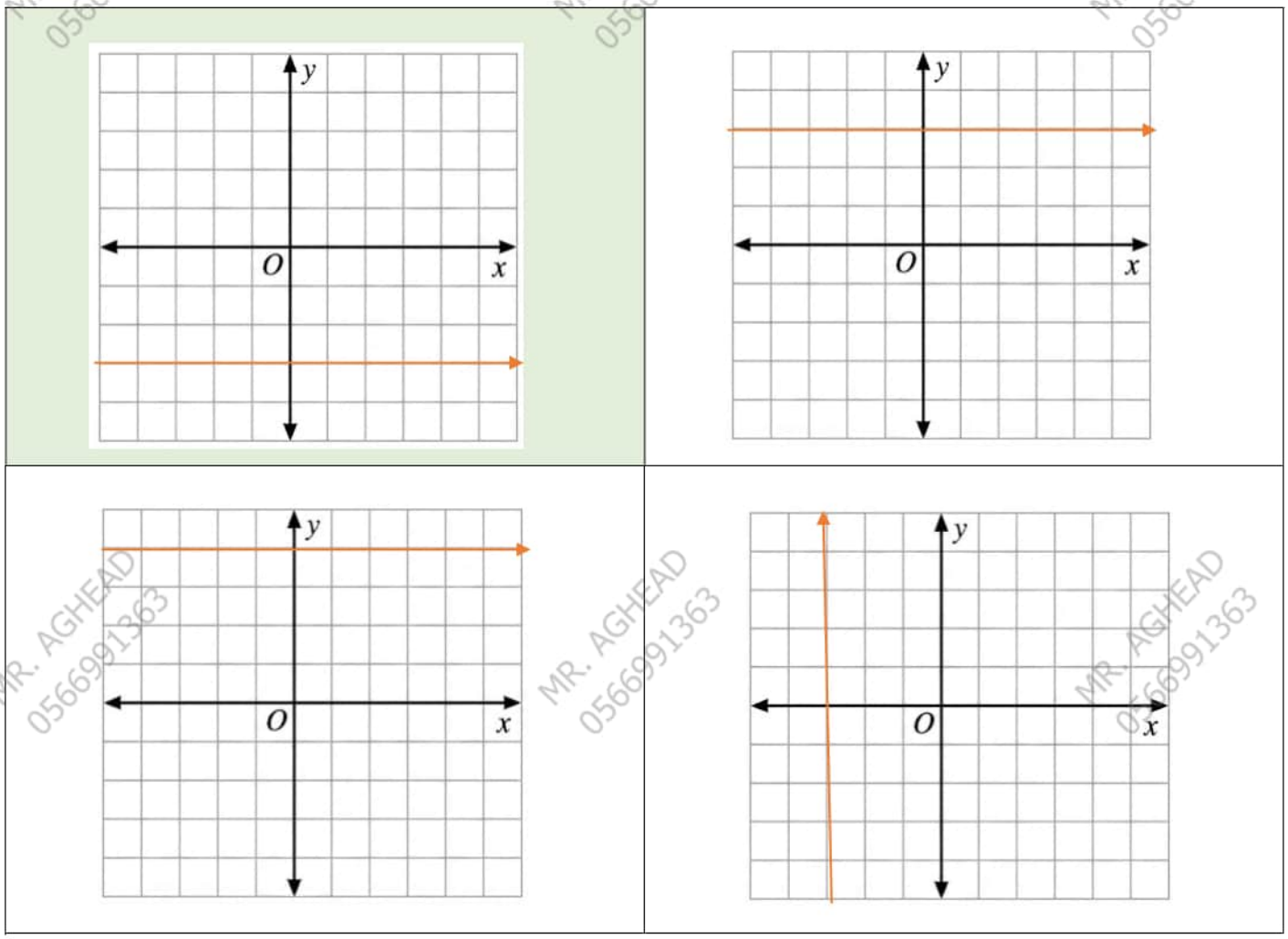
MR. AGHEAD 0566991363

للتواصل اضغط الرقم: 0566991363

احصل على الشرح كاملاً بـ 99 درهم فقط

Graph each equation. (Examples 3 and 4)

5. y = -3

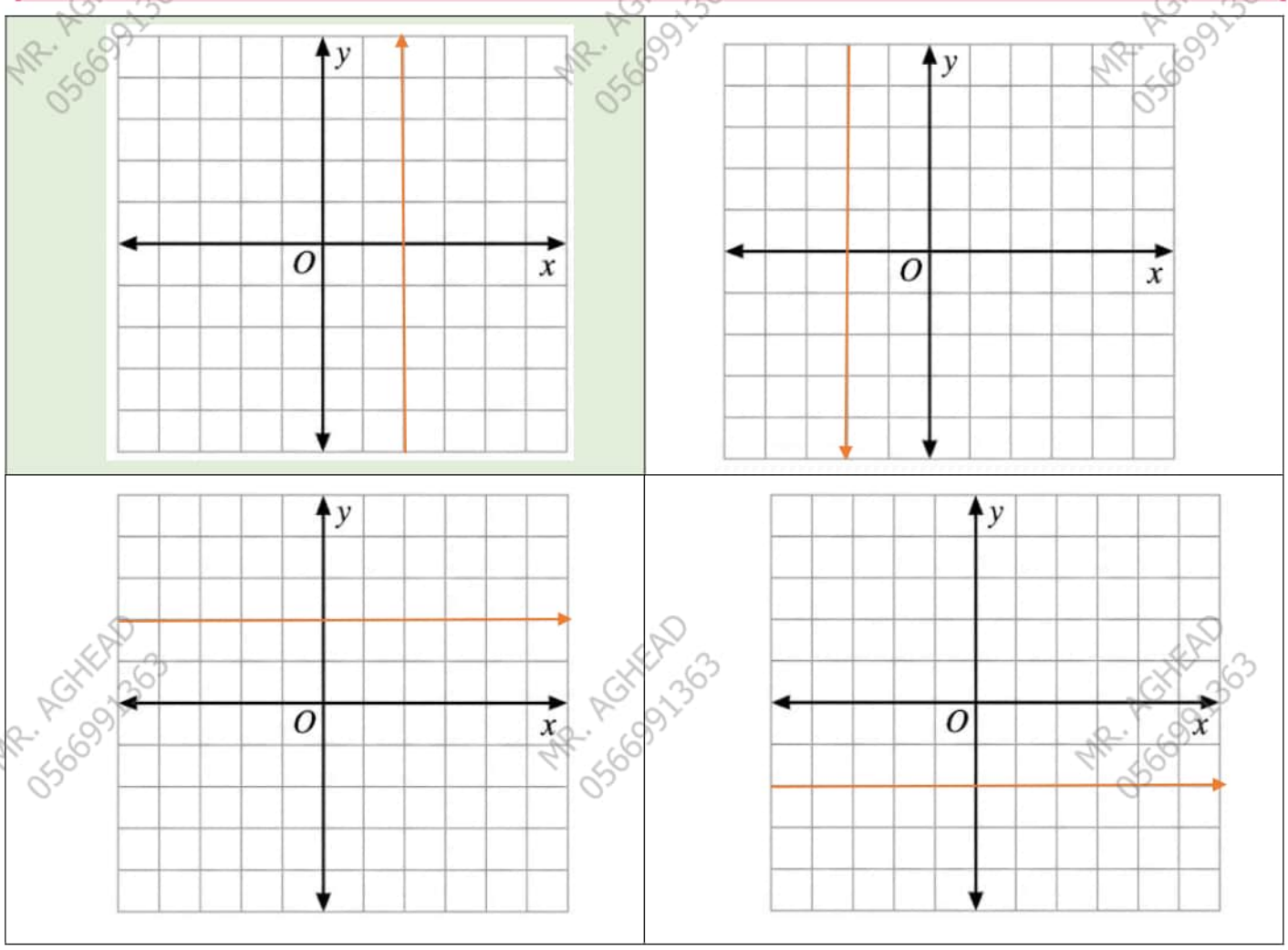


MR. AGHEAD 0566991363

احصل على الشرح كاملاً بـ 99 درهم فقط

للتواصل اضغط الرقم: 0566991363

6. $x = 2$



MR. AGHEAD 0566991363

Q20: Use rational approximations to compare and order real numbers, including irrational numbers

page: 121 (1-7)

MCQ - الأسئلة الموضوعية

1. Complete statement using <, >, or =: √(11) _____ $3\frac{2}{3}$

A) <
B) >
C) =

2. Complete statement using <, >, or =: $\sqrt{(3)}$ _____ $\sqrt{\frac{10}{2}}$

A) <
B) >
C) =

3. Complete statement using <, >, or =: -π² _____ $-\sqrt{(93)}$

A) <
B) >
C) =

4. Complete statement using <, >, or =: $-\sqrt{(12)}$ ____ -320%

A) <
B) >
C) =

للتواصل اضغط الرقم: 0566991363

احصل على الشرح كاملاً بـ 99 درهم فقط

5. Order the set $\{ 3\frac{1}{2}, \frac{10}{3}, \pi, \sqrt{(13)} \}$ from least to greatest.

A) $\pi, \frac{10}{3}, 3\frac{1}{2}, \sqrt{(13)}$
B) $\frac{10}{3}, \pi, 3\frac{1}{2}, \sqrt{(13)}$
C) $\pi, 3\frac{1}{2}, \frac{10}{3}\sqrt{(13)}$
D) $\sqrt{(13)}, 3\frac{1}{2}, \frac{10}{3}, \pi$

6. The table shows foul-shot statistics for 3 players:

Player 1 (7/9)

Player 2 (72%)

Player 3 (8 out of 10).

Which player had the greatest statistic?

A) Player 1
B) Player 2
C) Player 3
D) they are all equal

7. **Multiple Choice** Select the symbol that makes the sentence true.

$\sqrt{27} __ \frac{\sqrt{95}}{2}$

A) <
B) >
C) =

للتواصل اضغط الرقم: 0566991363

احصل على الشرح كاملاً بـ 99 درهم فقط

Q21: Use the Zero Exponent Rule and the Quotient of Powers Property to simplify expressions with zero and negative integer exponents, page: 41 (3-10)

الأسئلة المقالية - FRQ

Express each using a positive exponent.

3. $8^{-4} =$

$\frac{1}{8^4}$

4. $y^{-9} =$

$\frac{1}{y^9}$

Express each fraction using a negative exponent. (Example 3)

5. $\frac{1}{d^6} =$

d^{-6}

6. $\frac{1}{10^5} =$

10^{-5}

Simplify each expression. (Examples 4 and 5)

7. $9^4 \cdot 9^{-6} =$

$\frac{1}{81}$

8. $y^{-9} \cdot y^3 =$

$\frac{1}{y^6}$

9. $\frac{x^{-8}}{x^{-12}} =$

x^4

10. $\frac{d^{-13}}{d^{-2}} =$

$\frac{1}{d^{11}}$

MR. AGHEAD 0566991363

للتواصل اضغط الرقم: 0566991363

احصل على الشرح كاملاً بـ 99 درهم فقط

Q22: Use integer exponents to show repeated multiplication of rational numbers

page: 11 (5-9)

MCQ - الأسئلة الموضوعية

5. Evaluate $x^3 - y^2$ if $x = 2$ and $y = \frac{3}{4}$.
(Example 4)

$7\frac{7}{16}$

6. Evaluate $(g + h)^3$ if $g = 2$ and $h = -3$.
(Example 5)

-1

7. Replace ☐ with <, >, or = to make a true statement: $(-3)^4$ ☐ $(-4)^3$.

$>$

8. A scientist estimates that, after a certain amount of time, there would be $2^5 \cdot 3^3 \cdot 10^5$ bacteria in a Petri dish. How many bacteria is this?

86,400,000

9. Multiselect Select all of the expressions that evaluate to negative rational numbers.

- ✓ $\left(-\frac{4}{5}\right)^3$
- ✓ $3^5 - 10^4$
- ✓ $(9.8)^2 - 10^2$

للتواصل اضغط الرقم: 0566991363

احصل على الشرح كاملاً بـ 99 درهم فقط

Q23: Estimate irrational numbers by approximating their locations on a number line or by truncating their decimal expansions page: 109 (1-8)

MCQ - الأسئلة الموضوعية

Estimate each square root or cube root to the nearest integer. (Examples 1 and 3)

1. $\sqrt{125} \approx$ 11

2. $\sqrt{55} \approx$ 7

3. $\sqrt[3]{70} \approx$ 4

4. $\sqrt[3]{923} \approx$ 10

Estimate each square root to the nearest tenth. (Example 2)

5. $\sqrt{296} \approx$ 17.2

6. $\sqrt{5} \approx$ 2.2

7. $\sqrt{11} \approx$ 3.3

8. $\sqrt{62} \approx$ 7.9

MR. AGHEAD 0566991363

للتواصل اضغط الرقم: 0566991363

احصل على الشرح كاملاً بـ 99 درهم فقط

Q24: Use the properties of equality to solve equations with variables on each side that have rational coefficients

page: 135 (1-8)

الأسئلة المقالية - FRQ

Solve each equation. Check your solution. (Examples 1–3)

1. $-2a - 9 = 6a + 15$

   -3

2. $14 + 3n = 5n - 6$

   10

3. $\frac{1}{2}x - 5 = 10 - \frac{3}{4}x$

   12

4. $\frac{2}{3}y + 1 = \frac{1}{6}y + 8$

   14

MR. AGHEAD 0566991363

للتواصل اضغط الرقم: 0566991363

احصل على الشرح كاملاً بـ 99 درهم فقط

5. $5.4p + 13.1 = -2.6p + 3.5$

−1.2

6. $0.15w + 0.35 = 0.22w - 0.14$

7

7. Twelve more than seven times a number equals the number less six. Solve the equation $7x + 12 = x - 6$ to find the number, x.

−3

8. Equation Editor Solve the equation shown for x.

$3x - 15 = 17 - x$

8

MR. AGHEAD 0566991363

Q25: Write equations of the form y = mx + b when given a table, graph, or verbal description

page: 235 (1-7)

الأسئلة المقالية - FRQ

Identify the slope and *y*-intercept of the graph of each equation. (Example 1)

1. $y = \frac{1}{2}x - 5$

slope: $\frac{1}{2}$; *y*-intercept: -5

2. $y = 3x - 1$

slope: 3; *y*-intercept: -1

Write the equation of a line in slope-intercept form with each slope and *y*-intercept. (Example 2)

3. slope $= -\frac{1}{3}$, *y*-intercept $= 4$

$y = -\frac{1}{3}x + 4$

4. slope $= \frac{3}{2}$, *y*-intercept $= -3$

$y = \frac{3}{2}x - 3$

5. slope $= 4$, *y*-intercept $= -2$

$y = 4x - 2$

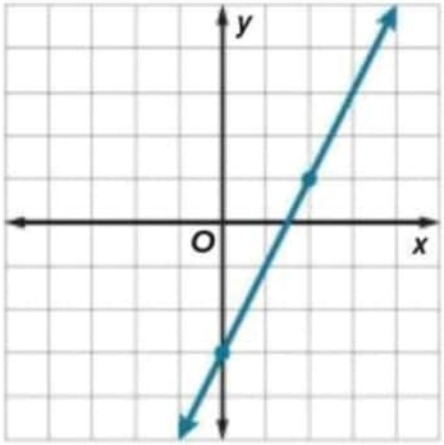
6. slope $= -1$, *y*-intercept $= 6$

$y = -x + 6$

للتواصل اضغط الرقم: 0566991363

احصل على الشرح كاملاً بـ 99 درهم فقط

7. Write an equation in slope-intercept form for the graph shown. (Example 3)



$y = 2x - 3$

MR. AGHEAD 0566991363

احصل على الشرح كاملاً بـ 99 درهم فقط

للتواصل اضغط الرقم: 0566991363

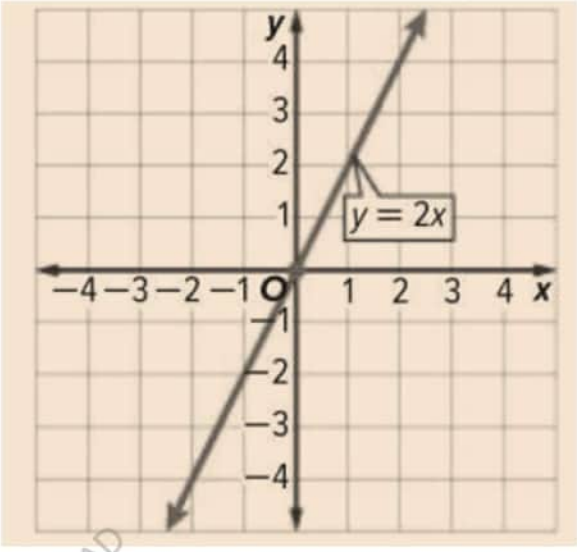
Q26: Derive the equation y = mx from the slope formula and use direct variation equations to represent and solve real-world and mathematical problems, page: 213, 223 learn + (1-4)

الأسئلة المقالية - FRQ

When the ratio of two variable quantities is constant, a proportional linear relationship exists. This proportional linear relationship is called a **direct variation**. The constant ratio is also called the **constant of variation** or the **constant of proportionality**. In the direct variation equation, $y = mx$, m represents the constant of variation, the constant of proportionality, the slope, and the unit rate.

Example

$y = 2x$

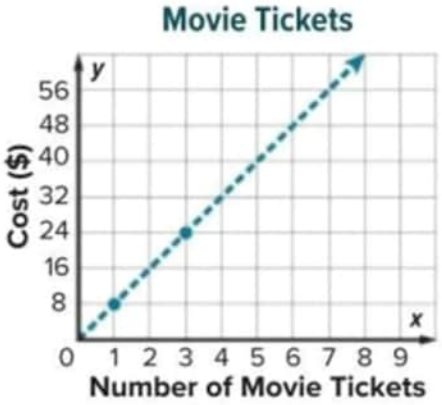


MR. AGHEAD 0566991363

للتواصل اضغط الرقم: 0566991363

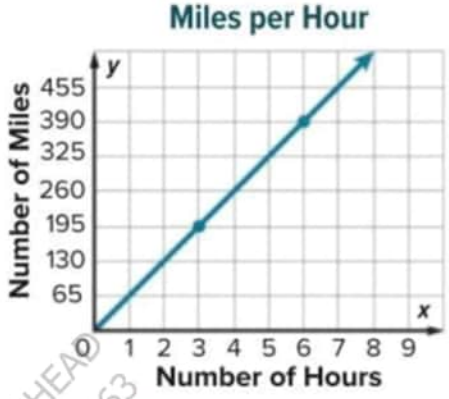
احصل على الشرح كاملاً بـ 99 درهم فقط

1. The cost y of movie tickets varies directly with the number of tickets x as shown in the graph. Write a direct variation equation to represent this relationship. Then identify the constant of variation and interpret its meaning. (Example 1)



$y = 8x$; The constant of variation is 8. This means that the cost per ticket is $8.

2. The number of miles y varies directly with the number of hours x as shown in the graph. Write a direct variation equation to represent this relationship. Then identify the constant of variation and interpret its meaning. (Example 1)



$y = 65x$; The constant of variation is 65. This means that the number of miles per hour is 65.

للتواصل اضغط الرقم: 0566991363

احصل على الشرح كاملاً بـ 99 درهم فقط

3. The cost of paper varies directly with the number of reams bought. Suppose two reams cost $5.10. Write a direct variation equation to represent this relationship. Then identify the constant of variation and interpret its meaning. (Example 2)

$y = 2.55x$; The constant of variation is 2.55. This means that the cost per ream is $2.55.

4. The amount of flour needed for a recipe varies directly with the number of servings planned. Three servings require $4\frac{1}{2}$ cups of flour. Write a direct variation equation to represent this relationship. Then identify the constant of variation and interpret its meaning. (Example 2)

$y = 1.5x$; The constant of variation is 1.5. This means that each serving requires $1\frac{1}{2}$ cups of flour.

MR. AGHEAD 0566991363

للتواصل اضغط الرقم: 0566991363

احصل على الشرح كاملاً بـ 99 درهم فقط



للحجز التواصل عبر الـ Whatsapp من خلال الضغط على الرقم:

0566991363

مع أطيب التمنيات بالنجاح والتوفيق ...

النهاية ...