

منهج ريفيل إجابة اختبار دروس الوحدة الثامنة العلاقات الخطية والدوال



تم تحميل هذا الملف من موقع المناهج الإماراتية

موقع المناهج ← المناهج الإماراتية ← الصف السابع ← رياضيات ← الفصل الثالث ← ملفات متنوعة ← الملف

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المزيد من مادة
رياضيات:

إعداد: Aghead

التواصل الاجتماعي بحسب الصف السابع



صفحة المناهج
الإماراتية على
فيسبوك

الرياضيات

اللغة الانجليزية

اللغة العربية

التربية الاسلامية

المواد على تلغرام

المزيد من الملفات بحسب الصف السابع والمادة رياضيات في الفصل الثالث

منهج ريفيل اختبار دروس الوحدة التاسعة الاحتمالات والإحصاء غير محلول	1
منهج ريفيل إجابة اختبار دروس الوحدة التاسعة الاحتمالات والإحصاء	2
منهج ريفيل اختبار دروس الوحدة العاشرة الإحصاء والاستدلال غير محلول	3
منهج ريفيل إجابة اختبار دروس الوحدة العاشرة الإحصاء والاستدلال	4
منهج ريفيل اختبار الوحدة الحادية عشر الزوايا والمثلثات غير محلول	5



وزارة التربية والتعليم
MINISTRY OF EDUCATION

اختبار دروس الرياضيات ريفيل الصف السابع الوحدة الثامنة الفصل الثالث لعام 2025 - 2026

احجز مكانك واستعد للامتحان بثقة كاملة

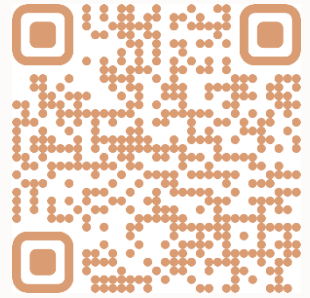
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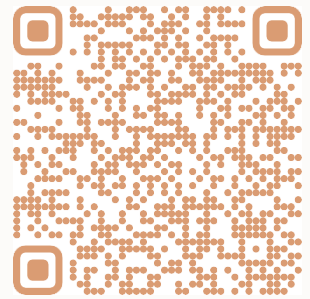
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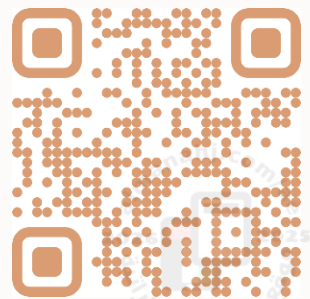


للانتقال إلى المواقع
اضغط هنا

شرح الدروس



انضم للقناة



مركز الفلاح الإماراتي

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يمكنكم الحصول على

شرح دروس
الفصل كاملاً

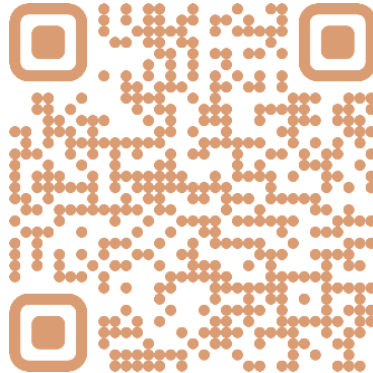
بـ 99
درهم فقط

ملزمة محلولة
بالكامل

اختبارات مع الحل

إن الاشتراك شامل لكامل الفصل الدراسي

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1

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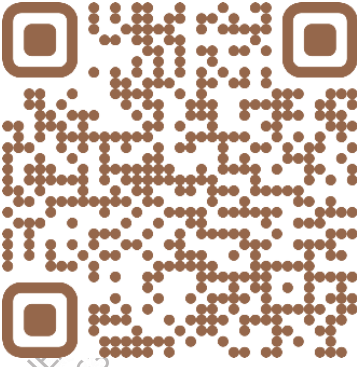
احصل على الشرح كاملاً بـ 99 درهم فقط

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اختبار الدرس 1-8

الأسئلة الموضوعية - MCQ



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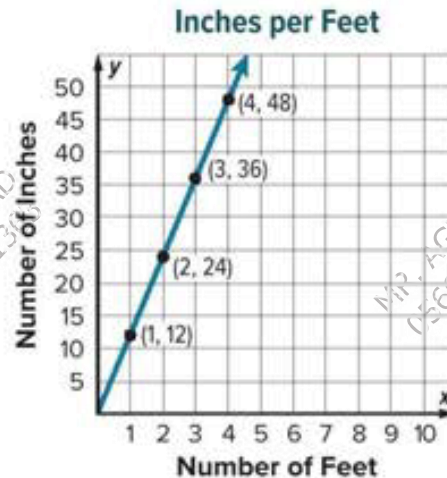
احصل على الشرح كاملاً بـ 99 درهم فقط

Question N.1: The graph shows the amount of money Ava saved over several weeks.



- | |
|-------|
| A. 5 |
| B. 20 |
| C. 10 |
| D. 15 |

Question N.2: The graph shows the relationship between feet and inches.



- | |
|-------|
| A. 9 |
| B. 12 |
| C. 15 |
| D. 18 |

Question N.3: The distance y in miles that a certain cyclist can ride and the time x in hours are in a proportional relationship, represented by the equation:

$$y = 12x$$

Question: Find the slope of the line and interpret its meaning in the context of the situation.

- | |
|---|
| A. The slope is 1; this means the cyclist rides 1 mile per hour. |
| B. The slope is 12; this means the cyclist rides 12 miles per hour. |
| C. The slope is 24; this means the cyclist rides 24 miles in total. |
| D. The slope is $1/12$; this means it takes 12 hours to ride 1 mile. |

Question N.4:

An online music store charges **\$3.75** for purchasing **three songs**. If the cost y is proportional to the number of songs x , what is the **slope** of the line that represents this relationship?

A. 3.75
B. 0.80
C. 1.25
D. 1.50

Question N.5

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.



A. 333.33\$ per day
B. 300.00\$ per day
C. 1.000\$ per day
D. 3000.00\$ per day

Question N.6:

The cost y of renting a snowmobile for x hours is given by the equation $y = 33.75x$. What does the slope of this relationship represent?

A. The initial deposit required to rent the snowmobile.
B. The hourly rental rate of \$33.75
C. The number of snowmobiles available for rent.
D. The total cost for 10 hours of rental.

Question N.7:

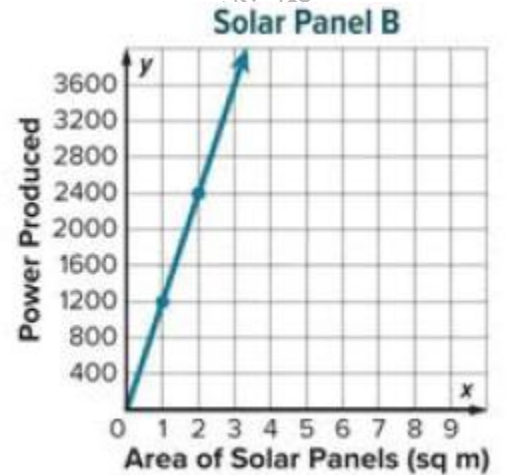
A movie grossed \$9.2 million by the end of its fourth week. If the revenue is proportional to the time, what is the slope of the line when graphed on a coordinate plane?

A. 4.0
B. 2.3
C. 9.2
D. 36.8

Question N.8:

Solar Panel A follows the equation $y = 1,020x$, where y is power and x is area. Solar Panel B is graphed and passes through the point (2, 2400). Which statement is true?

A. Panel B produces more power because its unit rate is 1,200.
B. Panel A produces more power because $1,020 > 1,000$
C. Both panels produce the same amount of power.
D. Panel A produces more power because its line is steeper.



Question N.9:

Craig bikes at a rate shown in a table: (2 days, 43.6 miles) and (3 days, 65.4 miles). Rei bikes at a constant rate of 23.6 miles per day. Who bikes the lower number of miles each day?

Number of Day Trips	Distance (mi)
2	43.6
3	65.4
4	87.2

- | |
|--|
| A. Rei, because $23.6 < 43.6$ |
| B. Rei, because his unit rate is 21.8 miles per day. |
| C. Craig, because his unit rate is 21.8 miles per day. |
| D. They both bike at the same rate. |

Question N.10

A student is graphing the equation $y = x$. They claim the slope is 0 because there is no visible coefficient. What is the correct slope and explanation?

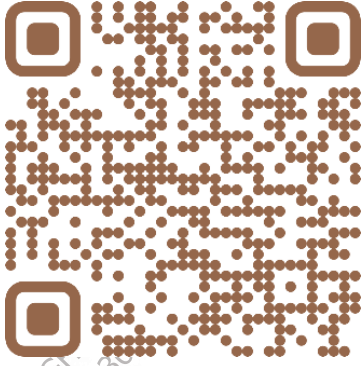
- | |
|---|
| A. The slope is 0, the student is correct. |
| B. The slope is x, the variable itself represents the steepness. |
| C. The slope is 1, any variable x without a coefficient has an invisible coefficient of 1 |
| D. The slope cannot be determined without more points. |

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Mr. Aghead

اختبار الدرس 2-8

الأسئلة الموضوعية - MCQ



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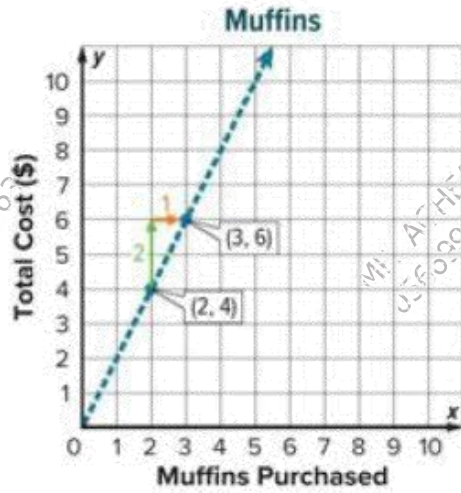


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Question N.1:

The graph shows the cost of muffins at a bake sale.

Find the slope of the line.

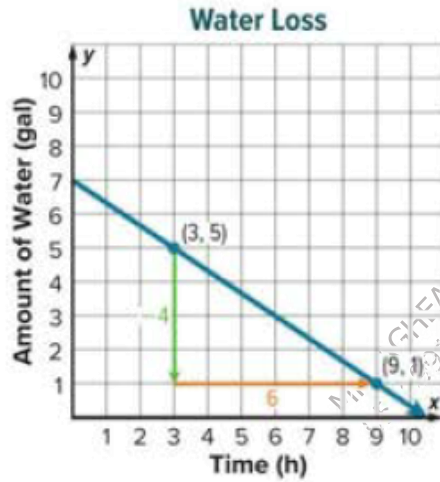


- | |
|------|
| A. 6 |
| B. 1 |
| C. 4 |
| D. 2 |

Question N.2:

The graph shows the amount of water in a leaking bucket over time.

Find the slope of the line.



- | |
|-------------------|
| A. $\frac{2}{3}$ |
| B. $-\frac{2}{3}$ |
| C. $\frac{3}{2}$ |
| D. $-\frac{3}{2}$ |

Question N.3:

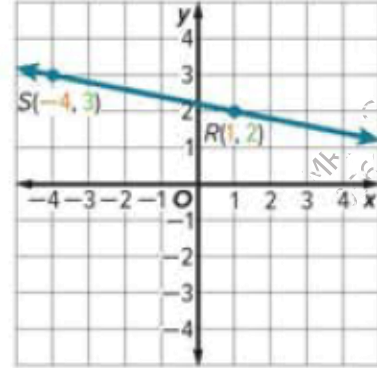
The points given in the table lie on a line.

Find the slope of the line. Check your solution.

x	-6	-2	2	6
y	-2	-1	0	1

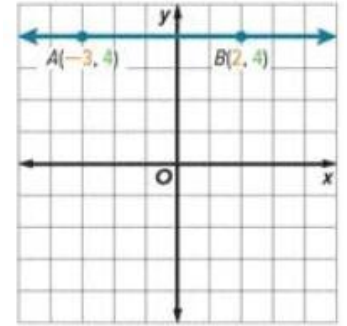
- | |
|-------------------|
| A. $\frac{4}{2}$ |
| B. $\frac{3}{4}$ |
| C. $\frac{1}{4}$ |
| D. $-\frac{1}{4}$ |

Question N.4: Find the slope of the line that passes through $R(1, 2)$, $S(-4, 3)$.
Check your solution.



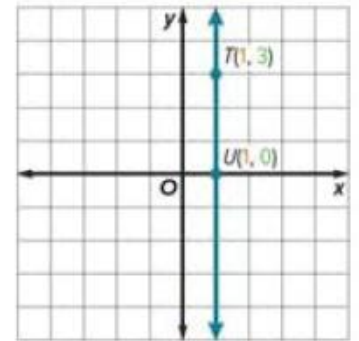
- | |
|-------------------|
| A. $\frac{4}{5}$ |
| B. $\frac{3}{4}$ |
| C. $-\frac{1}{5}$ |
| D. $\frac{2}{5}$ |

Question N.5: Find the slope of the line that passes through $A(-3, 4)$, $B(2, 4)$.



- | |
|------|
| A. 0 |
| B. 2 |
| C. 5 |
| D. 4 |

Question N.6: Find the slope of the line that passes through $T(1, 3)$, $U(1, 0)$.



- | |
|--------------|
| A. 0 |
| B. 4 |
| C. 1 |
| D. undefined |

Question N.7: The graph shows the amount of money left after buying video games. Find the slope of the line.

A. 20
B. - 20
C. 15
D. -25



Question N.8: Find the slope of the line that passes through each pair of points.

$G(-3, 2), H(7, 2)$

A. 0
B. -1
C. 1
D. undefined

Question N.9: The points given in each table lie on lines. Which table, when graphed, would show a negative slope?

(A)

x	-2	3	8	13
y	-2	-1	0	1

(C)

x	3	5	6	8
y	8	0	-4	-12

(B)

x	-1	1	3	5
y	-2	0	2	4

(D)

x	-13	-9	-5	-1
y	-4	-2	0	2

A.
B.
C.
D.

Question N.10: Find the slope of the line that passes through each pair of points.

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

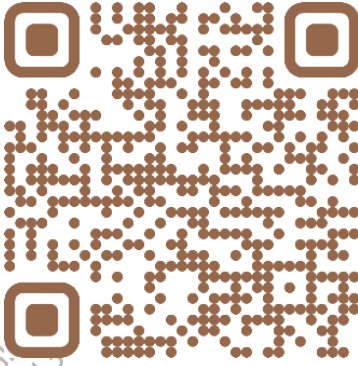
A. 0
B. -1
C. 1
D. undefined

Mr. Ahead

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اختبار الدرس 3-8

الأسئلة الموضوعية - MCQ



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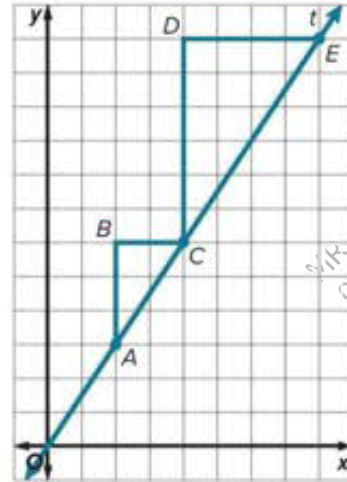
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احصل على الشرح كاملاً بـ 99 درهم فقط

Question N.1: The graph of line t is shown. Use the similar slope triangles to compare the slope of segment AC and the slope of the segment CE .

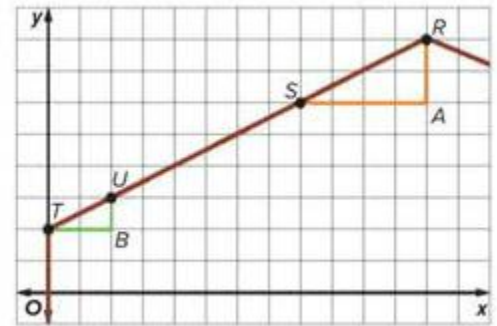


- | |
|-------------------|
| A. $\frac{2}{3}$ |
| B. $-\frac{3}{2}$ |
| C. $-\frac{2}{3}$ |
| D. $\frac{3}{2}$ |

Question N.2: The pitch of a roof refers to the slope of the roof line.

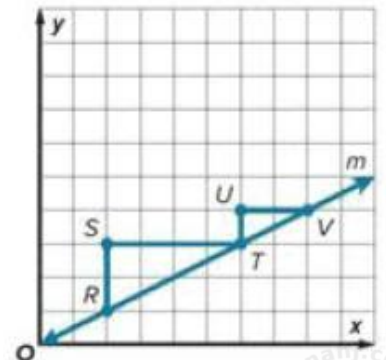
Choose two points on the roof and find the pitch of the roof shown. Then verify that the pitch is the same by choosing a different set of points.

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

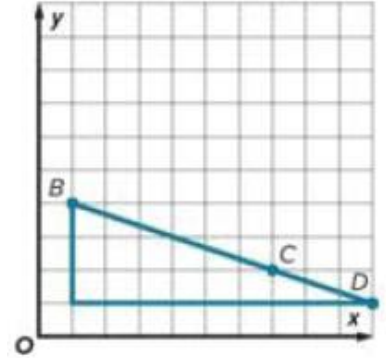


Question N.3: The graph of line m is shown. Use the similar slope triangles to compare the slope of segment RT and TV .

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

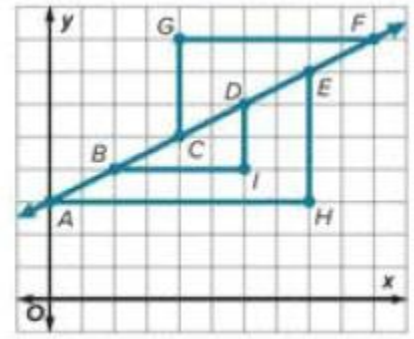


Question N.4: The plans for a zipline are shown. Use two points to determine the slope of the zipline. Then verify that the slope is the same by choosing a different set of points.



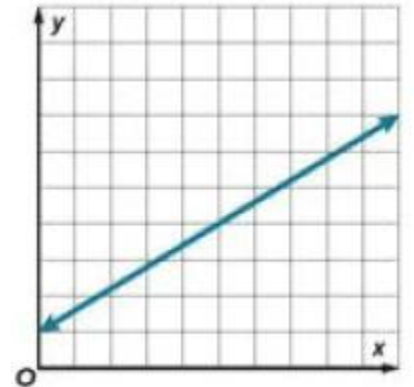
- | |
|-------------------|
| A. $\frac{2}{5}$ |
| B. $-\frac{3}{2}$ |
| C. $-\frac{1}{3}$ |
| D. $\frac{1}{3}$ |

Question N.5: Name the slope triangles shown in the graph. What is the slope of the line?



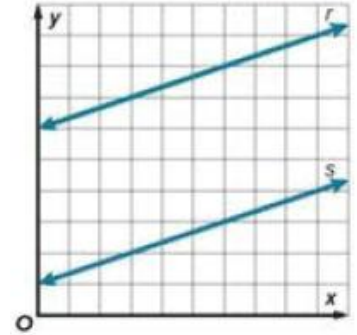
- | |
|-------------------|
| A. $\frac{3}{2}$ |
| B. $\frac{1}{2}$ |
| C. 2 |
| D. $-\frac{1}{2}$ |

Question N.6: Draw two slope triangles on the line. Determine the slope of the line.



- | |
|--------|
| A. 0.3 |
| B. 0.6 |
| C. 0.9 |
| D. 5 |

Question N.7: Lines r and s are parallel, meaning they will never intersect. Draw similar slope triangles on each line and find the slope of each line. What conclusion can you draw about the slopes of parallel lines?



A. $\frac{2}{5}$
B. $-\frac{3}{2}$
C. $\frac{1}{3}$
D. $-\frac{1}{3}$

Question N.8: A student draws two different slope triangles on the same straight line. Triangle A has a vertical height (rise) of 3 and a horizontal length (run) of 2. Triangle B is larger and has a run of 6. What must be the rise of Triangle B?

A. 9
B. 6
C. 3
D. 12

Question N.9:

A student calculates the slope of one segment of a line to be 5. They then calculate the slope of a different segment on the same line as $\frac{20}{4}$. Which statement best corrects the student's thinking if they believe these two segments have different slopes?

- | |
|---|
| A. The slopes are different because the numbers used in the calculation are different. |
| B. The slope only stays the same if the triangles are exactly the same size. |
| C. The slopes are the same because any two segments on a straight line have the same constant rate of change. |
| D. The slope changes depending on which coordinates are chosen on the line. |

Question N.10: Does the specific placement of a slope triangle along a non-vertical straight line affect the final calculation of the slope?

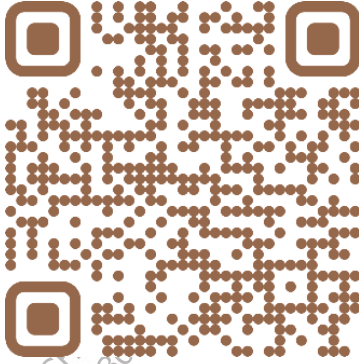
- | |
|---|
| A. Yes, because triangles further from the origin result in larger slope values. |
| B. Yes, because the slope triangle must always have one vertex at (0, 0) |
| C. No, because the ratio of the corresponding sides of similar slope triangles remains constant anywhere on the line. |
| D. No, but only if the triangles are drawn in the first quadrant. |

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اختبار الدرس 4-8

الأسئلة الموضوعية - MCQ



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Question N.1: The cost y of gymnastics lessons varies directly with the number of sessions 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.



A. 5

B. 20

C. 10

D. 15

Question N.2: The cost of bulk peanuts varies directly with the weight of the peanuts. At a local grocery store, 2 pounds of peanuts cost \$5.80.

Write a direct variation equation to represent this relationship. Then identify the constant of variation and interpret its meaning.

A. 1.9

B. 2.9

C. 1.5

D. 1.8

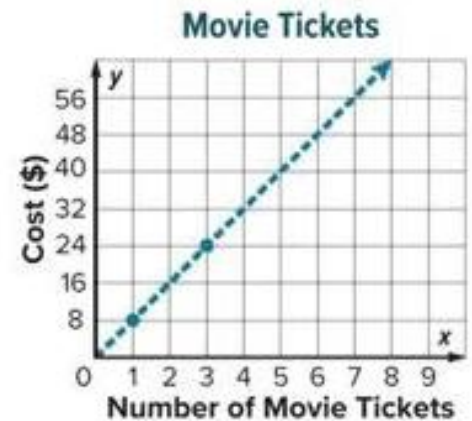
Question N.3: Aubrey is baking oatmeal cookies for the school carnival using the amounts shown in the table. The number of cups of flour varies directly with the number of cups of oats.

Cups of Oats, x	Cups of Flour, y
2	4
4	8
6	12
8	16

Write a direct variation equation to represent this relationship. Then identify the constant of variation and interpret its meaning.

- | |
|------|
| A. 0 |
| B. 1 |
| C. 2 |
| D. 3 |

Question N.4: 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.



- | |
|-------|
| A. 2 |
| B. 4 |
| C. 8 |
| D. 16 |

Question N.5: 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.



A. 65

B. 35

C. 45

D. 55

Question N.6: 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.

A. 1.50

B. 2.55

C. 3.75

D. 5.10

Question N.7: 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.

A. 2.5

B. 1.5

C. 0.5

D. 3

Question N.8: The distance a bus travels varies directly with time as shown in the table. Write a direct variation equation to represent this relationship. Then identify the constant of variation and interpret its meaning

Time (h), x	Distance (mi), y
1.5	93.75
3	187.5
4.5	281.25
6	375

- A. 62.5
- B. 30.5
- C. 15.8
- D. 95.6

Question N.9: Water pressure is measured in pounds per square inch (psi). The number of pounds per square inch y varies directly with the depth x of the water. Write and solve a direct variation equation to determine what the pressure is at a depth of 297 feet.

Depth (ft), x	Pressure (psi), y
66	29
99	43.5
132	58

- A. 37.9
- B. 60.5
- C. 130.5
- D. 152.5

Question N.10: A backyard fountain pumps 18 gallons of water in 4.5 minutes. Assume the number of gallons varies directly with the time. Write and solve a direct variation equation to find how many gallons of water the fountain pumps in 6.5 minutes.

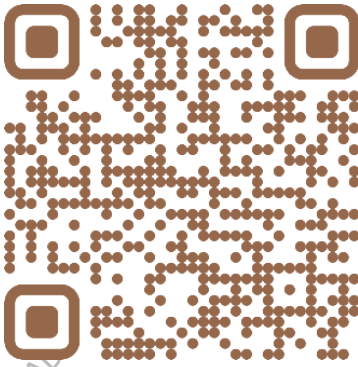
- A. 7
- B. 13
- C. 26
- D. 39

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اختبار الدرس 5-8

الأسئلة الموضوعية - MCQ



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Mr. Aghead

للتواصل اضغط الرقم: 0566991363

احصل على الشرح كاملاً بـ 99 درهم فقط

Question N.1: Identify the slope and y-intercept of the graph of the equation

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

A. The slope of the graph is $-\frac{2}{3}$, and the y-intercept is 4

B. The slope of the graph is $-\frac{2}{3}$, and the y-intercept is -4

C. The slope of the graph is $\frac{2}{3}$, and the y-intercept is 4

D. The slope of the graph is $\frac{2}{3}$, and the y-intercept is -4

Question N.2: Write the equation of a line in slope-intercept form with a slope of -3 and a y-intercept of -4 .

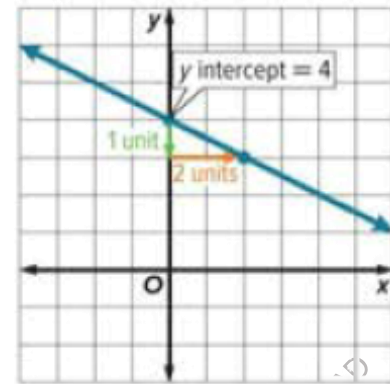
A. $y = 3x - 4$

B. $y = -3x - 4$

C. $y = -3x + 4$

D. $y = 3x + 4$

Question N.3: Write an equation in slope-intercept form for the graph shown.



A. $y = \frac{1}{2}x - 4$

B. $y = 2x + 4$

C. $y = -\frac{1}{2}x + 4$

D. $y = -2x + 4$

Question N.4:

Student Council is selling T-shirts during spirit week. It costs \$20 for the design and \$5 to print each shirt.

Write an equation in slope-intercept form to represent the total cost y for printing any number of shirts x .

A. $y=20x+5$
B. $20=y=5x$
C. $y=5x+20$
D. $y=x+25$

Question N.5:

Amanda is reading a novel for her Language Arts class. The table shows the number of pages that Amanda has left after a certain number of hours she spent reading.

Write an equation in slope-intercept form that represents the data in the table.

Hours, x	0	2	4	6	8
Pages Left to Read, y	360	280	200	120	40

A. $y=-40x+360$
B. $y=x+320$
C. $y=360x -40$
D. $-40y=x+360$

Question N.6: Identify the slope and y-intercept of the graph of each equation.

$$y = 3x - 1$$

A. slope: -1, y-intercept: 3
B. slope: 3, y-intercept: -1
C. slope: -3, y-intercept: 1
D. slope: 1, y-intercept: -3

Question N.7: Write the equation of a line in slope-intercept form with each slope and y-intercept.

slope = -1 , y-intercept = 6

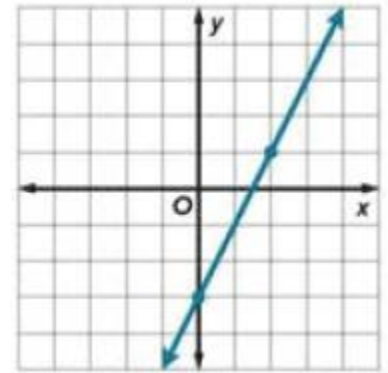
A. $y=6x-1$

B. $y=-x+6$

C. $y=-6x+1$

D. $y=x-6$

Question N.8: Write an equation in slope-intercept form for the graph shown.



A. $y=2x-3$

B. $y=x-1$

C. $y=3x+4$

D. $y=5x-4$

Question N.9: The table shows the costs for art show participants, including the \$30 registration fee. Write an equation in slope-intercept form that represents the data in the table.

Number of Pieces of Art	Cost (\$)
0	30
2	90
4	150
6	210
8	270

A. $y=3x+6$

B. $y=33x+3$

C. $y=30x+30$

D. $y=3x+30$

Question N.10: The Augello family is driving from Columbus to St. Louis at a constant rate of 65 miles per hour. The distance between the two cities is 420 miles. Write an equation in slope-intercept form to represent the distance y in miles remaining after driving x hours

A. $y=5x+500$

B. $y=420x-65$

C. $y=-65x+420$

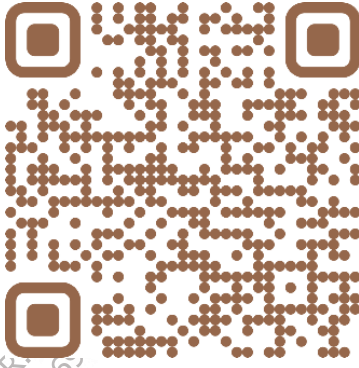
D. $y=65x-420$

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اختبار الدرس 6-8

الأسئلة الموضوعية - MCQ



لا تتردد في التواصل
معنا قم بمسح ال QR

احصل على الشرح الكامل للصف من خلال:

التواصل والحجز عبر الـ Whatsapp

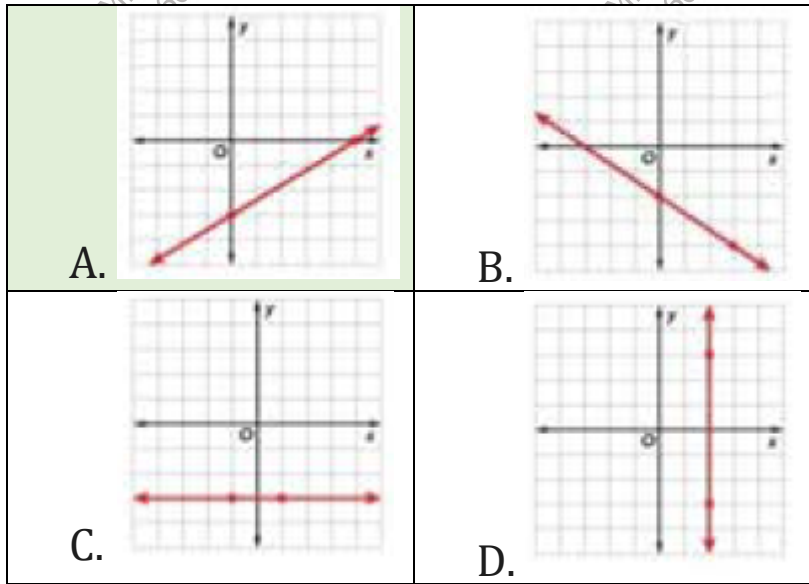
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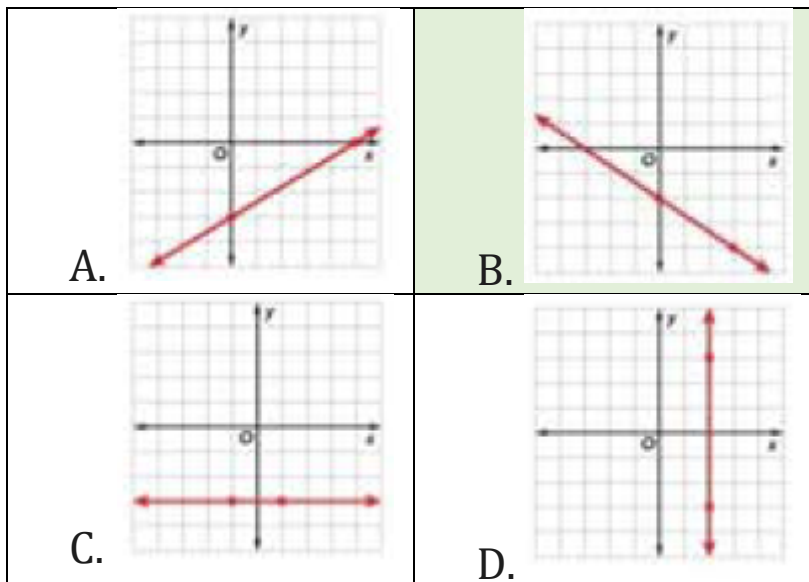
Question N.1: Graph each equation using the slope and y-intercept.

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



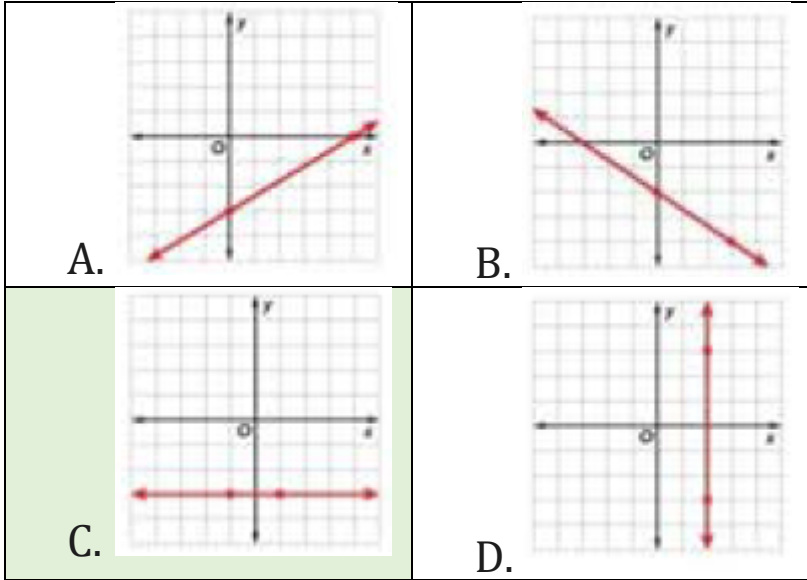
Question N.2: Graph each equation using the slope and y-intercept.

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



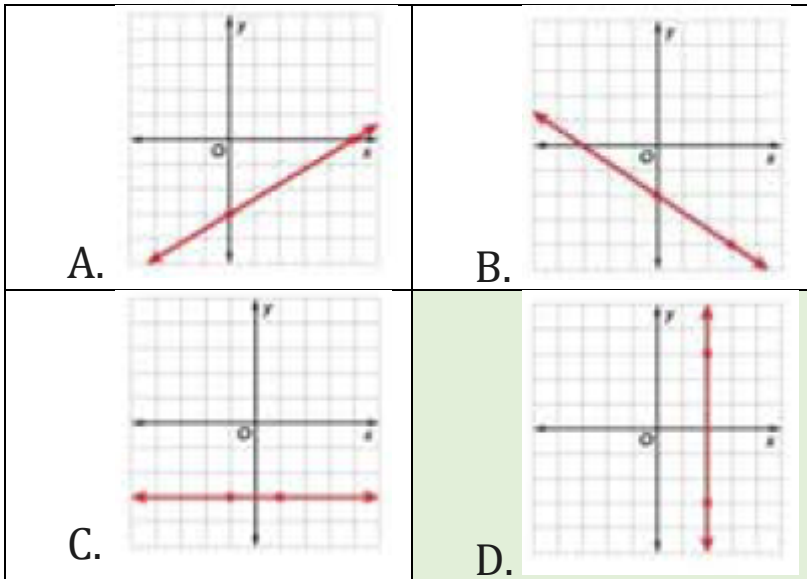
Question N.3: Graph each equation using the slope and y-intercept.

$$y = -3$$

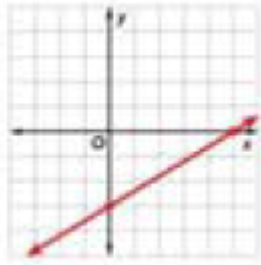

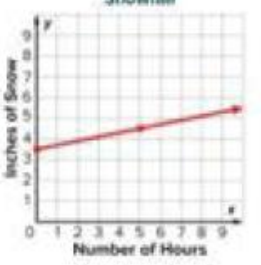
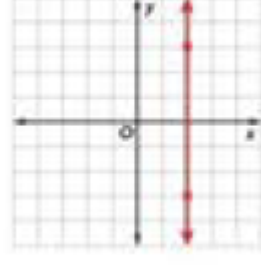


Question N.4: Graph each equation using the slope and y-intercept.

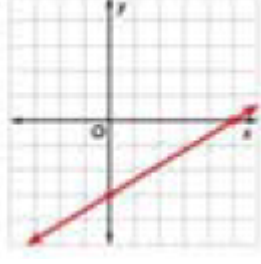

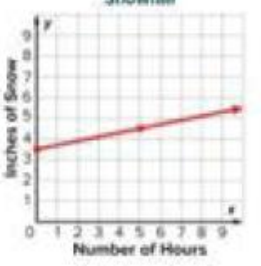
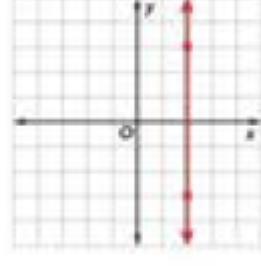
$$x = 2$$



Question N.5: The equation $y = \frac{1}{5}x + 3.5$ 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.

<p>E.</p> 	<p>F.</p> 
<p>G.</p> 	<p>H.</p> 

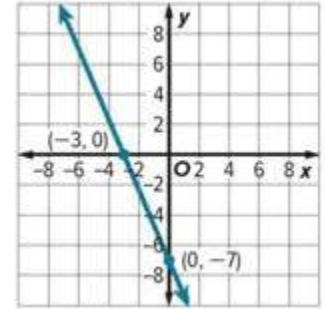
Question N.6: Alliyah's gift card balance can be represented by the equation $y = -5x + 50$, where y represents the gift card balance after x number of days. Graph this equation.

<p>A.</p> 	<p>B.</p> 
<p>C.</p> 	<p>D.</p> 

Question N.7:

Looking at the line graphed through points $(0, -7)$ and $(-3, 0)$, which of the following statements is true?

- A) The slope of the line is positive.
- B) The y -intercept is 3.
- C) The slope of the line is $-\frac{7}{3}$.
- D) The equation of the line is $y = 7$.



A.	B.	C.	D.
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Question N.8:

Why can't the equations of vertical lines be written in slope-intercept form ($y = mx + b$)?

- A) Because the y -intercept is always zero.
- B) Because the slope of a vertical line is undefined.
- C) Because vertical lines do not have a y -variable.
- D) Because the value of b is always infinite.

A.	B.	C.	D.
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Question N.9:

If a line with a negative slope and a negative y -intercept is graphed, which quadrant will the line **not** pass through?

- A) Quadrant I
- B) Quadrant II
- C) Quadrant III
- D) Quadrant IV

A.	B.	C.	D.
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Question N.10:

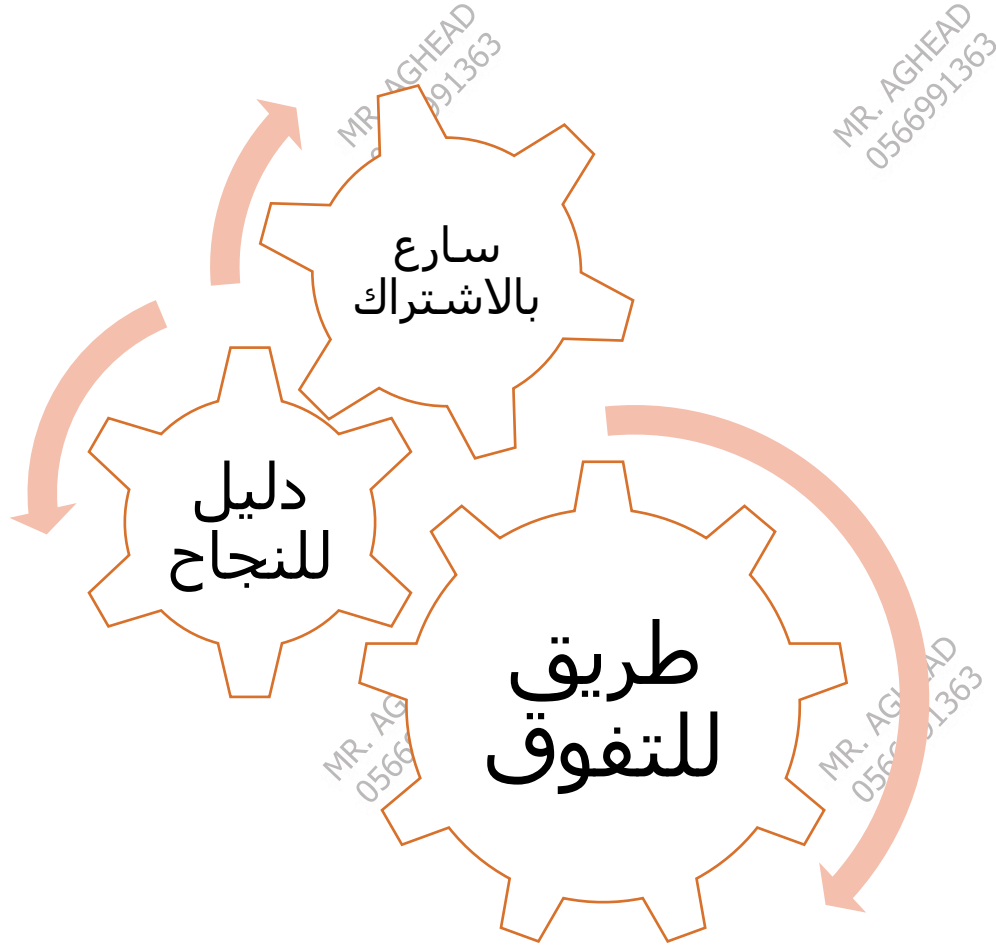
When graphing $y = -3x + 2$, a student mistakenly moved 2 units left and 3 units down from the y -intercept. What is the correct way to apply the slope of -3 ?

- A) Move 2 units right and 3 units up.
- B) Move 1 unit right and 3 units down.
- C) Move 3 units right and 1 unit down.
- D) Move 3 units right and 3 units up.

A.	B.	C.	D.
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للحجز التواصل عبر الـ Whatsapp من خلال الضغط على الرقم:

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مع أطيب التمنيات بالنجاح والتوفيق ...
النهاية ...