تجميعة أسئلة وفق الهيكل الوزاري الجديد منهج ريفيل





تم تحميل هذا الملف من موقع المناهج الإماراتية

موقع المناهج ← المناهج الإماراتية ← الصف التاسع العام ← رياضيات ← الفصل الأول ← ملفات متنوعة ← الملف

تاريخ إضافة الملف على موقع المناهج: 19-225:34 12:26:34

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

المزيد من مادة || رياضيات:

إعداد: مدرسة خليفة بن زايد

التواصل الاجتماعي بحسب الصف التاسع العام











صفحة المناهج الإماراتية على فيسببوك

الرياضيات

اللغة الانجليزية

اللغة العربية

التربية الاسلامية

المواد على تلغرام

المزيد من الملفات بحسب الصف التاسع العام والمادة رياضيات في الفصل الأول	
نموذج إجابة تجميعة شاملة وفق كامل الهيكل الوزاري منهج بريدج	1
تجميعة شاملة وفق كامل الهيكل الوزاري منهج بريدج بدون الحل	2
الخطة الفصلية للدروس المقررة في الفصل الأول منهج ريفيل	3
الدروس التي تم تحويلها إلى دروس إثرائية للعام 2026-2025	4
حل مراجعة الوحدة الثالثة معادلات الدوال الخطية	5

Page |

ELITE STREAM MATHEMATICS

Term 1, Academic Year 2025/2026

Name	
Class	In it
Date	Jugiil.cov





9 GEN 2025/26

TERM1-M2L2

Solve equations by using addition and subtraction

Solve each equation.

1.
$$v - 9 = 14$$

$$2.44 = t - 72$$

3.
$$-61 = d + (-18)$$

4.
$$18 + z = 40$$

$$5. -4a = 48$$

6.
$$12t = -132$$

7.
$$18 - (-f) = 91$$

$$8. -16 - (-t) = -45$$

9.
$$\frac{1}{3}v = -5$$

10.
$$\frac{u}{8} = -4$$

11.
$$\frac{a}{6} = -9$$

12.
$$\frac{3}{4} = w + \frac{2}{5}$$

13.
$$-\frac{k}{5} = \frac{7}{5}$$

14.
$$-\frac{1}{2} + a = \frac{5}{8}$$

15.
$$-\frac{t}{7} = \frac{1}{15}$$





9 GEN 2025/26

TERM1- M2L3

Solve equations involving more than one operation

Use properties of equality to solve each equation.

1.
$$3t + 7 = -8$$

$$2.8 = 16 + 8n$$

$$3.-34 = 6m - 4$$

$$4.9x + 27 = -72$$

$$\frac{y}{5} - 6 = 8$$

$$\frac{f}{-7} - 8 = 2$$

5.

7.
$$1 + \frac{r}{9} = 4$$

8.
$$\frac{k}{3} + 4 = -16$$

9.
$$\frac{n-2}{7} = 2$$

10.
$$14 = \frac{6+z}{-2}$$

11.
$$-11 = \frac{a-5}{6}$$

12.
$$\frac{22-w}{3} = -7$$



9 GEN 2025/26

TERM1- M1L4

Use the Distributive Property to simplify expressions

Simplify each expression. If not possible, write simplified.

40.
$$3x^3 - 2x^2$$

41.
$$7m + 7 - 5m$$

42.
$$5z^2 + 3z + 8z^2$$

43.
$$7m + 2m + 5p + 4m$$
 44. $6x + 4y + 5x$

44.
$$6x + 4y + 5x$$

45.
$$3m + 5g + 6g + 11m$$

46.
$$4a + 5a^2 + 2a^2 + a^2$$

47.
$$5k + 3k^3 + 7k + 9k^3$$

48.
$$6x^2 + 14x - 9x$$

49.
$$17q + q$$

50.
$$2x^2 + 6x^2$$

51.
$$7a^2 - 2a^2$$

52.
$$3y^2 - 2y + 9$$

53.
$$3q^2 + q - q^2$$



9 GEN 2025/26

TERM1- M2L4

Prove that equations are identities or have no solution

Solve each equation and state whether the equation has one solution, no solution, or is an identity.

25.
$$-6y - 3 = 3 - 6y$$

26.
$$\frac{1}{2}(x+6) = \frac{1}{2}x-9$$

27.
$$8q + 12 = 4(3 + 2q)$$

$$28.\ 21(x+1) - 6x = 15x + 21$$

29.
$$12y + 48 - 4y = 8(y - 6)$$

30.
$$8(z+6) = 4(2z+12)$$

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5 9 GEN 2025/26

TERM1- M1L1

Evaluate numerical expressions by using the order of operations

Evaluate each expression.

36.
$$[(6^3-9)\div 23]4$$

37.
$$\frac{8+3^3}{12-7}$$

38.
$$\frac{(1+6)9}{5^2-4}$$

40.
$$13 - \frac{1}{3}(11 - 5)$$

41.
$$(5 \cdot 2 - 9) + 2 \cdot \frac{1}{2}$$

6	9 GEN	TERM1-M4L3
О	2025/26	Rewrite linear equations in slope-intercept form

Write an equation of a line in slope-intercept form with the given slope and y-intercept.



7 9 GEN 2025/26

TERM1-M4L5

Construct arithmetic sequences

Find the common difference of each arithmetic sequence. Then find the next three terms.

12.
$$-\frac{1}{2}$$
, 0, $\frac{1}{2}$, 1, ...

14.
$$\frac{7}{12}$$
, $1\frac{1}{3}$, $2\frac{1}{12}$, $2\frac{5}{6}$, ...





9 GEN 2025/26

TERM1-M4L5

Construct arithmetic sequences

Determine whether each sequence is an arithmetic sequence.

2.
$$\frac{1}{2}$$
, $\frac{3}{4}$, $\frac{5}{8}$, $\frac{7}{16}$, ...

_	9 GEN	TERM1-M1L3
9	2025/26	Recognize the properties of equality and identity

Identify the property of equality used to justify each statement.

1. If
$$4 + 17 = 21$$
, then $21 = 4 + 17$.

2.
$$x + 3 = x + 3$$

3. If
$$16 = 9 + 7$$
, then $9 + 7 = 16$.

4. If
$$6+2=4+4$$
 and $4+4=8$, then $6+2=8$.

Use the given property of equality to complete each statement.

5. If
$$23 + 14 = 37$$
, then $37 = 23 + 2$; **6.** If $a + 5 = b + 3$ and $a + 5 = 12$, then $b + 3 = 2$; Symmetric Property of Equality Transitive Property of Equality

7. If
$$34 = 19 + 15$$
, then $19 + 15 = ?$; **8.** $b + 5 + 12 = ?$; Symmetric Property of Equality Reflexive Property of Equality

8.
$$b + 5 + 12 =$$
 ;
Reflexive Property of Equality



10 9 GEN 2025/26

TERM1- M2L6

Solve proportions

Solve each proportion. If necessary, round to the nearest hundredth.

1.
$$\frac{3}{8} = \frac{15}{\alpha}$$

2.
$$\frac{t}{2} = \frac{6}{12}$$

3.
$$\frac{4}{9} = \frac{13}{q}$$

4.
$$\frac{15}{35} = \frac{g}{7}$$

5.
$$\frac{7}{10} = \frac{m}{14}$$

6.
$$\frac{8}{13} = \frac{v}{21}$$

7.
$$\frac{w}{2} = \frac{4.5}{6.8}$$

8.
$$\frac{1}{0.19} = \frac{12}{n}$$

9.
$$\frac{2}{0.21} = \frac{8}{n}$$

10.
$$\frac{2.4}{3.6} = \frac{k}{1.8}$$

11.
$$\frac{t}{0.3} = \frac{1.7}{0.9}$$

12.
$$\frac{7}{1066} = \frac{2}{965}$$

13.
$$\frac{x-3}{5} = \frac{6}{10}$$

14.
$$\frac{7}{x+9} = \frac{21}{36}$$

15.
$$\frac{10}{15} = \frac{4}{x-5}$$



9 GEN 2025/26

TERM1-M2L4

Solve equations with the variable on each side

Solve each equation.

1.
$$7c + 12 = -4c + 78$$

2.
$$2m - 13 = -8m + 27$$

3.
$$9x - 4 = 2x + 3$$

4.
$$6 + 3t = 8t - 14$$

5.
$$\frac{b-4}{6} = \frac{b}{2}$$

6.
$$\frac{3v+12}{6} = \frac{4v}{3}$$

7.
$$2(r+6) = 4(r+4)$$

8.
$$6(n+5) = 3(n+16)$$

9.
$$5(g+8)-7=117-g$$

10.
$$12 - \frac{4}{5}(x + 15) = (\frac{2}{5}x + 6)$$





12	9 GEN	TERM1-M2L1
12	2025/26	Translate sentences into equations

Translate each sentence into an equation or formula.

- Twice a increased by the cube of a equals b.
- Seven less than the sum of p and t is as much as 6.
- The sum of x and its square is equal to y times z.
- Four times the sum of f and g is identical to six times g.
- The area A of a square is the length of a side \(\ell \) squared.
- The perimeter P of a triangle is equal to the sum of the lengths of sides a, b, and c.

12	9 GEN	TERM1- M2L6
13	2025/26	Solve proportions

40. SHOPPING Stevenson's Market is selling 3 packs of stylus pens for \$5.00. How much will 10 packs of stylus pens cost at this price?

- 41. STATE YOUR ASSUMPTION During basketball practice, Brent made 36 free throws in 3 minutes.
- 42. **NAILS** Human fingernails grow at an average rate of 3.47 millimeters per month. How much will they grow in 20 months?
- 43. **PICTURE** Jasmine enlarged the size of a picture to a height of 15 inches. What is the new width of the picture if it was originally 6 inches wide by 4 inches tall?

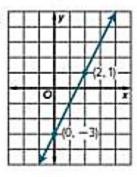


9 GEN 14 2025/26

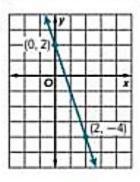
TERM1- M4L4

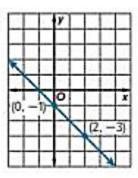
Graph and interpret linear functions.

Write an equation in slope-intercept form for each graph shown.



38.





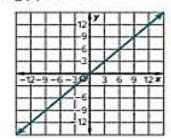
9 GEN **15** 2025/26

TERM1- M4L5

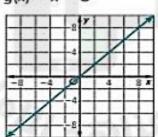
Apply translations to linear functions

Describe the translation in each function as it relates to the graph of the parent function.

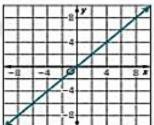
1. g(x) = x + 11



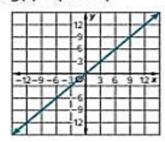
2. g(x) = x - 8



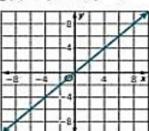
3.
$$g(x) = (x - 7)$$

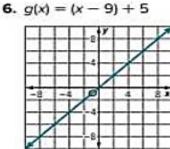


4. g(x) = (x + 12)



5. g(x) = (x + 10) - 1





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16	9 GEN	TERM1-M1L2
16	2025/26	Write verbal expressions for algebraic expressions

Write an algebraic expression for each verbal expression.

17	9 GEN	TERM1-M1L4
1/	2025/26	Use the Distributive Property to evaluate expressions

Rewrite each expression using the Distributive Property. Then simplify.

23.
$$2(x + 4)$$

24.
$$(5 + n)3$$

26.
$$-3(2x - 6)$$

28.
$$11(4d + 6)$$

29.
$$\left(\frac{1}{3} - 2b\right)$$
27

30.
$$4(8p + 16q - 7r)$$





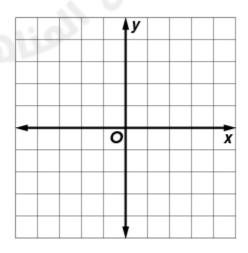
18	9 GEN	TERM1- M4L2
10	2025/26	Calculate and interpret slope

Find the slope of the line that passes through each pair of points.

19	9 GEN	TERM1- M4L6
19	2025/26	Identify and graph step functions

Graph f(x) = [x - 2] by making a table. Copy and complete the table. Then graph the function.

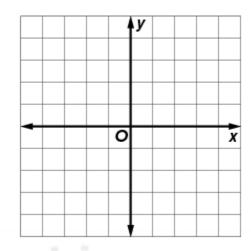
*	x-2	[x-2]
-1	-3	
-0.75	-2.75	
-0.25	-2.25	-3
0	-2	-2
0.25	-1.75	-2
0.5	-1.5	
1	-1	
1.25	-0.75	-1
1.5	-0.5	
2	0	
2.25	0.25	





Graph f(x) = [x + 1]. State the domain and range.

×	x+1	[x+1]
-2	-1	
-1.75	-0.75	
-1.25	-0.25	
-1	0	
-0.5	0.5	
-0.25	0.75	
0	1	
0.25	1.25	
0.5	1.5	
1	2	
1.25	2.25	
1.75	2.75	



- 18. STRUCTURE Suppose f(x) = 2[x-1].
 - a. Find f(1.5).
 - c. Find f(9.7).

- b. Find f(2.2).
- d. Find f(-1.25).



20 9 GEN 2025/26

TERM1-M2L2

Solve equations by using multiplication and division

Solve each equation.

43.
$$12z = 108$$

44.
$$-7t = 49$$

45.
$$18f = -216$$

46.
$$-22 = 11v$$

47.
$$-6d = -42$$

48.
$$96 = -24a$$

49.
$$\frac{c}{4} = 16$$

50.
$$\frac{a}{16} = 9$$

51.
$$-84 = \frac{d}{3}$$

52.
$$-\frac{d}{7} = -13$$

53.
$$\frac{t}{4} = -13$$

54.
$$31 = -\frac{1}{6}n$$



21 9 GEN 2025/26

TERM1 - M1L2

Evaluate algebraic expressions by using the order of operations

Evaluate each expression if g = 2, r = 3, and t = 11.

42.
$$g + 6t$$

44.
$$r^2 + (g^3 - 8)^5$$

45.
$$(2t + 3g) \div 4$$

47.
$$3g(g+r)^2-1$$

Evaluate each expression if a = 8, b = 4, and c = 16.

48.
$$a^2bc - b^2$$

49.
$$\frac{c^2}{b^2} + \frac{b^2}{a^2}$$

$$50. \ \frac{2b + 3c^2}{4a^2 - 2b}$$

51.
$$\frac{3ab + c^2}{a}$$

52.
$$(\frac{a}{b})^2 - \frac{c}{a-b}$$

53.
$$\frac{2a-b^2}{ab} + \frac{c-a}{b^2}$$





22	9 GEN	TERM1- M2L7
	2025/26	Solve equations for specific variables. (2-7)

- 19. **RECTANGLES** The formula $P = 2\ell + 2w$ represents the perimeter of a rectangle. In this formula, ℓ is the length of the rectangle and w is the width.
 - **a.** Solve the formula for ℓ .
 - **b.** Find the length when the width is 4 meters and the perimeter is 36 meters.
- 20. **BASEBALL** The formula $a = \frac{h}{b}$ can be used to find the batting average a of a batter who has h hits in b times at bat.
 - **a.** Solve the formula for *b*.

- **b.** If a batter has a batting average of 0.325 and has 39 hits, how many times has the player been at bat?
- 21. **SHOPPING** Thomas went to the store to buy videogames for \$13.50 each and controllers. The total amount Thomas spent can be represented by c = 13.50g + p, where c is the total cost, g is the number of games he bought, and p is the cost of the controllers. The controllers cost \$55 and Thomas spent \$136 total.
 - **a.** Solve the formula for *g*.
 - **b.** Find how many games Thomas bought.

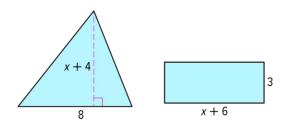




- 22. **GEOMETRY** The volume of a box V is given by the formula $V = \ell w h$, where ℓ is the length, w is the width, and h is the height.
 - **a.** Solve the formula for *h*.
 - **b.** What is the height of a box with a volume of 50 cubic meters, length of 10 meters, and width of 2 meters?

21. **GEOMETRY** Supplementary angles are two angles with measures that have a sum of 180° . Complementary angles are two angles with measures that have a sum of 90° . The measure of the supplement of an angle is 10° more than twice the measure of the complement of the angle. Let 90 - x equal the degree measure of the complement angle and 180 - x equal the degree measure of the supplement angle. Write and solve an equation to find the measure of the angle.

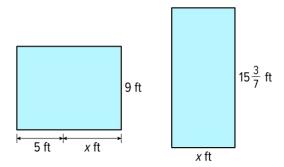
22. **GEOMETRY** Write and solve an equation to find the value of x so that the figures have the same area.







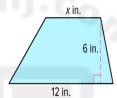
23. **GEOMETRY** Write and solve an equation to find the value of x so that the figures have the same area.

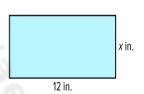


24. **GEOMETRY** Write and solve an equation to find the value of x so that the figures have the same area.

The area of a trapezoid is











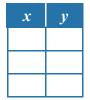
24 9 GEN 2025/26

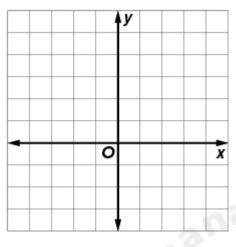
TERM1-M4L1

Graph linear functions by using the x- and y-intercepts

Graph each equation by using the x-and y- intercepts.

9.
$$y = 4 + 2x$$





To find the x-intercept, let y = 0.

y = 4 + 2x Original equation

0 = 4 + 2x Replace y with 0.

-4 = 2x Subtract 4 from each side.

-2=x Divide each side by 2.

This means that the graph intersects the x-axis at (-2, 0).

To find the *y*-intercept, let x = 0

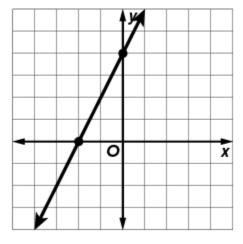
y = 4 + 2x Original equation

y = 4 + 2(0) Replace x with 0.

y = 4 Simplify.

This means that the graph intersects the y-axis at (0,4).

Graph the x-intercept. Graph the y-intercept. Draw a line through the points.

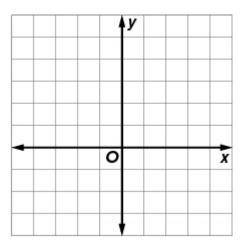






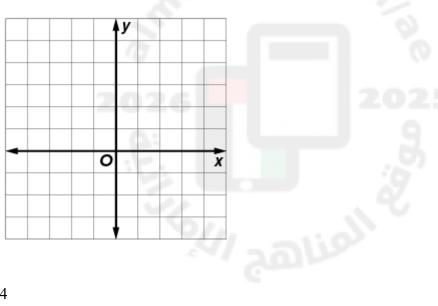
10.
$$5 - y = -3x$$

X	y



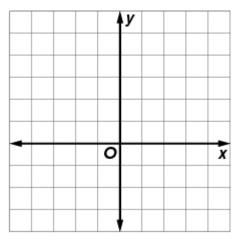
11.
$$x = 5y + 5$$

x	y



12.
$$x + y = 4$$

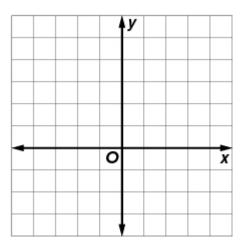
x	y





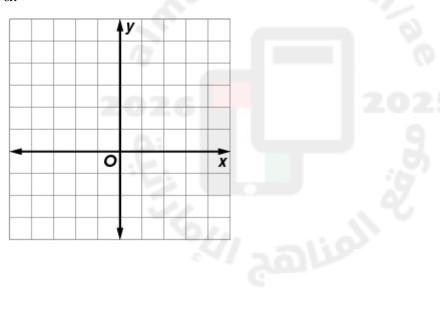
13.
$$x - y = -3$$

X	y



14.
$$y = 8 - 6x$$

x	y





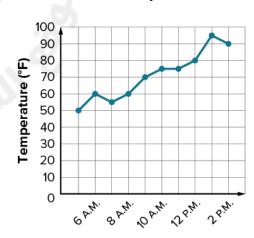
25	9 GEN	TERM1
	2025/26	Calculate and interpret rate of change.

3. **POPULATION DENSITY** The table shows the population density for the state of Texas in various years. Find the average annual rate of change in the population density from 2000 to 2009.

Population Density		
Year	People Per Square Mile	
1930	22.1	
1960	36.4	
1980	54.3	
2000	79.6	
2009	96.7	

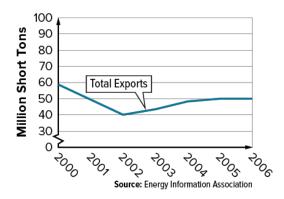
4. **BAND** In 2012, there were approximately 275 students in the Delaware High School band. In 2018, that number increased to 305. Find the annual rate of change in the number of students in the band.

- 5. **TEMPERATURE** The graph shows the temperature in a city during different hours of one day.
- a. Find the rate of change in temperature between 6 A.M. and
- 7 A.M. and describe its meaning in the context of the situation.
- b. Find the rate of change in temperature from 1P.M. and 2 P.M. and describe its meaning in the





6. **COAL EXPORTS** The graph shows the annual coal exports from U.S. mines in millions of short tons.



a. Find the rate of change in coal exports between 2000 and 2002 and describe its meaning in the context of the situation.

b. Find the rate of change in coal exports between 2005 and 2006 and describe its meaning in the context of the situation.