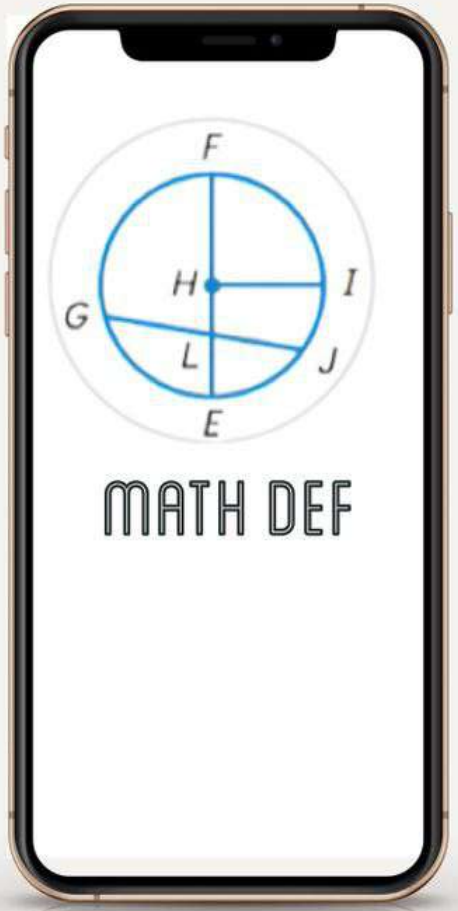
ملخص نهائي وفق الهيكل الوزاري منهج ريفيل

التواصل الاجتماعي بحسب الصف التاسع المتقدم					
صفحة المناهج الإماراتية على فيسبوك					
المواد على تلغرام	التربية الاسلامية	اللغة العربية	اللغة الانجليزية	الرياضيات	

وزارة التربية والتعليم
MINISTRY OF EDUCATION

9 ADV.



ملخص مختصر
لهيكل تاسع متقدم
فصل أول .

إعداد : عصام الدبابيه .

فيديو الشرح :

1. Solve multi-step linear inequalities. **P354**

$$21 \geq 3(a-7)+9$$

2. Solve equation involving more than one operation. **P88.**

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

3. Calculate and interpret slope. **P226.**

Find the value of $r$so the line that passes through each pair of points has the given slope.

$$(12,10),(-2,r),\ m=-4$$

4. Solve and graph linear inequalities. **P363**

Solve each compound inequality. Then graph the solution set.

$f-6<5$ **and** $f-4\geq 2$

5. Solve proportions. **P115.**

$$\frac{m-2}{4}=\frac{5}{20}$$

6. Graph the solution of linear inequalities in two variables. **P379.**

$$y \geq 3x-1$$

7. Solve multi-step linear inequalities. **P345.**

Solve each inequality. Then graph the solution on a number line.

$-3(7n+3)<6n$

8. Solve absolute value equations. **P105.**

Solve the equation:

$$|\,7-2q\,|=3$$

9. Graph and interpret linear functions. **P235, 236.**

Macario works part-time at a clothing store in the mall. He is paid **$9 per hour** plus **12% commission** on the items he sells in the store. Write an equation in slope-intercept form to represent Macario's hourly wage y.

10. Create and identify equation of parallel or perpendicular lines. **P304.**

Write an equation in slope-intercept form for the line that passes through the given point and is parallel to the graph of the equation. Then write an equation for the line that passes through the given point and is perpendicular to the graph of the equation.

$(3, -2);\ y = x + 4$

11. Identify and graph piecewise-defined function. **P259 – 265.**

18. STRUCTURE

Suppose $f(x) = 2[x - 1]$.

a. Find $f(1.5)$.

b. Find $f(2.2)$.

c. Find $f(9.7)$.

11. Translate sentence into equations. **P71.**

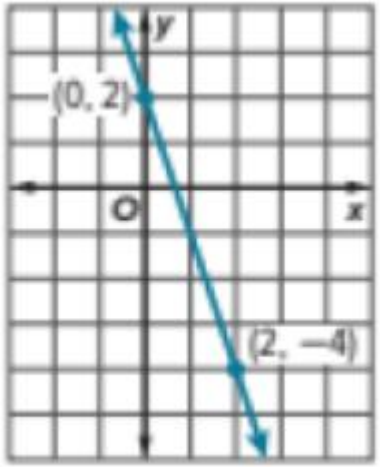
Twice a increased by the cube of $a$equals b.

12. Solve absolute value expressions **p106.**

POLLS Candidate A and Candidate B are running for mayor. A poll was taken to determine which candidate would likely win the election. The poll is accurate within ±5%. Write and solve an absolute value equation to find the maximum and minimum percent of voters who will vote for Candidate A if 38% of the voters in the poll voted for Candidate A.

13. Graph and interpret linear function. **P233. 236.**

write the equation in slope-intercept form.



15.Apply the arithmetic sequence formula. **P225.**

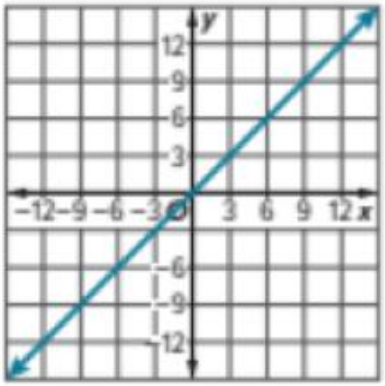
Use the given arithmetic sequence to write an equation and then find the 7th term of the sequence.

$-3,\ -8,\ -13,\ -18,\ \ldots$

16. Apply translation to linear functions. **P247**

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

$g(x) = x + 11$



17. Graph the solutions of an equality **P341, 343, 347.**

Solve the inequality .

$-23 \geq q - 30$

18. Find inverses of linear functions. **P332.**

$f(x) = 8x - 5$

19. Write and equation of a line in slope-intercept form given two points. **P291**

Write an equation of the line that passes through each pair of points.

$(0, -4),\ (5, -4)$

20. Solve linear inequalities by using addition. **P352, 355.**

solve the inequality and graph it on the number line.

$-3(7n + 3) < 6n$

FRQ.

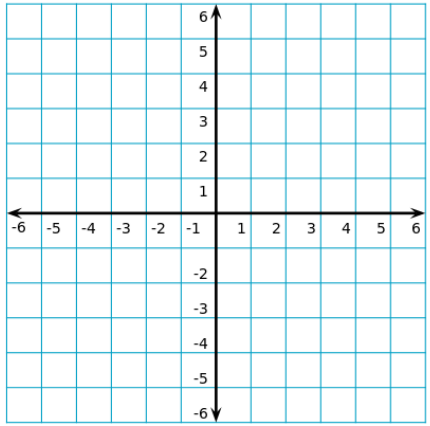
21. Prove that equations are identities or have no solution. **P98.**

Solve the equation and state the number of solution.

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

22.Graph linear functions by using the x- and y-intercepts. **P216.**

$$5 - y = -3x$$



23. Solve equations for specific variables. **P125.**

RECTANGLES

The formula $P = 2\ell + 2w$represents the perimeter of a rectangle.

In this formula, $\ell$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.

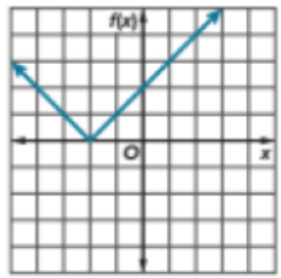
24. Create and identify equations of parallel or perpendicular lines. **P304.**

Determine whether the graphs of each pair of equations are *parallel*, *perpendicular*, or *neither*.

$$y = 4x + 3$$
$$4x + y = 3$$

25. Calculate and interpret rate of change. **P277**

7.



26.Solve absolute value inequalities. **P371**

Solve each inequality. Then graph the solution set $|r + 2| > 6$