مراجعة نهائية وفق الهيكل الوزاري الجديد منهج ريفيل

تم تحميل هذا الملف من موقع المناهج الإماراتية	
موقع المناهج ⇦ المناهج الإماراتية ⇦ الصف التاسع المتقدم ⇦ رياضيات ⇦ الفصل الأول ⇦ ملفات متنوعة ⇦ الملف	
تاريخ إضافة الملف على موقع المناهج: 12-11-2025 21:09:48	
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: Karajeh Shefa	

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

المزيد من الملفات بحسب الصف التاسع المتقدم والمادة رياضيات في الفصل الأول	
كراسة تدريبية مراجعة وفق الهيكل الوزاري الجديد منهج بريدج	1
تجميعة أسئلة وفق الهيكل الوزاري الجديد منهج بريدج بدون الحل	2
حل تجميعة أسئلة شاملة وفق الهيكل الوزاري الجديد منهج بريدج	3
تجميعة أسئلة شاملة وفق الهيكل الوزاري الجديد منهج بريدج	4
أسئلة الامتحان النهائي منهج ريفيل القسم الورقي	5

العام الأكاديمي 2025-2026

MATH GRADE 9ADV
EOT TERM1

من المهارة إلى الصدارة
نحو مستقبل تصنعه المهارات

Part 1

1) Solve multi-step linear inequalities
Pag 254 Q (16-21)

Lesson 6-1

Solving One-Step Inequalities

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

16. $-3(7n + 3) < 6n$

17. $21 \geq 3(a - 7) + 9$

18. $2y + 4 > 2(3 + y)$

19. $3(2 - b) < 10 - 3(b - 6)$

20. $7 + t \leq 2(t + 3) + 2$

21. $8a + 2(1 - 5a) \leq 20$

2) Solve equations involving more than one operation
PAG 88 Q (1-12)

Lesson 2-3

Solving Multi-Step Equations

Use properties of equality to solve each equation.

1. $3t + 7 = -8$

2. $8 = 16 + 8n$

3. $-34 = 6m - 4$

4. $9x + 27 = -72$

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

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

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

3) Calculate and interpret slope
PAG 226 Q (38-45)

Lesson 4-2

Rate of Change and Slope

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

38. (12, 10), (−2, *r*), $m = -4$ **39.** (*r*, −5), (3, 13), $m = 8$

40. (3, 5), (−3, *r*), $m = \frac{3}{4}$ **41.** (−2, 8), (*r*, 4), $m = -\frac{1}{2}$

42. (*r*, 3), (5, 9), $m = 2$ **43.** (5, 9), (*r*, −3), $m = -4$

44. $(r, 2), (6, 3), m = \frac{1}{2}$

45. $(r, 4), (7, 1), m = \frac{3}{4}$

4) Solve and graph linear inequalities containing the word and
PAG 363 Q (1-10)

Lesson 6-3

Solving Compound Inequalities

Solve each compound inequality. Then graph the solution set.

1. $f - 6 < 5$ and $f - 4 \geq 2$

2. $n + 2 \leq -5$ and $n + 6 \geq -6$

3. $y - 1 \geq 7$ or $y + 3 < -1$

4. $t + 14 \geq 15$ or $t - 9 < -10$

5. $-5 < 3p + 7 \leq 22$

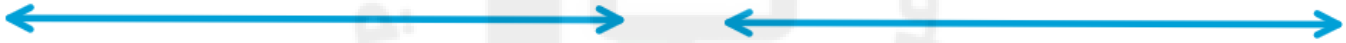
6. $-3 \leq 7c + 4 < 18$

7. $5h - 4 \geq 6$ and $7h + 11 < 32$

8. $22 \geq 4m - 2$ or $5 - 3m \leq -13$

9. $-y + 5 \geq 9$ or $3y + 4 < -5$

10. $-4a + 13 \geq 29$ and $10 < 6a - 14$



5) Solve proportions
PAG 115 Q (61-66)

Lesson 2-6

Solving Proportions

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

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

62. $\frac{9}{5} = \frac{3}{x+7}$

63. $\frac{5}{b} = \frac{3}{b-6}$

64. $\frac{2p+3}{3} = \frac{4p-7}{2}$ **65.** $\frac{3y+4}{5} = \frac{y-1}{4}$ **66.** $\frac{2}{w} = \frac{7}{w+5}$

6) Graph the solutions of linear inequalities in two variables.

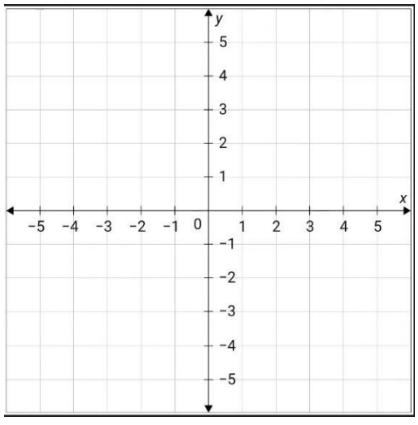
PAG 379 Q (1-8)

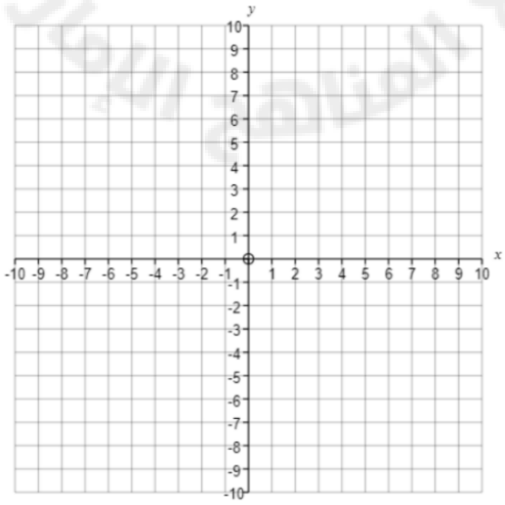
Lesson 6-5

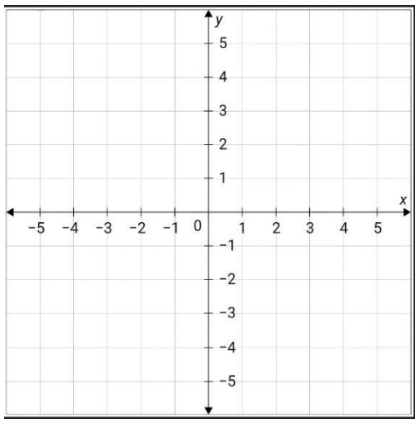
Graphing Inequalities in Two Variables

Graph each inequality.

1. $y < x - 3$ **2.** $y > x + 12$ **3.** $y \geq 3x - 1$



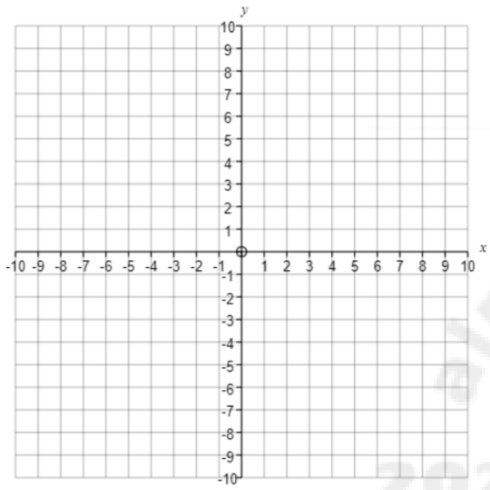


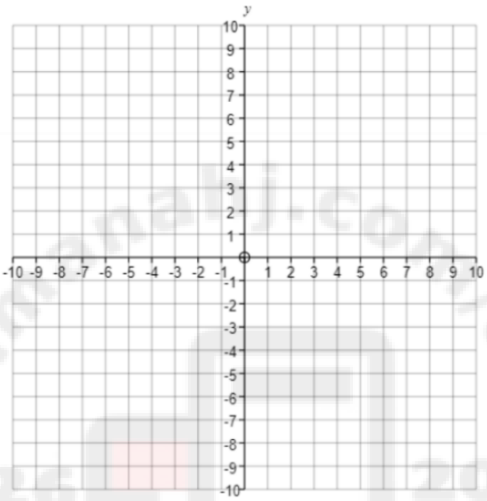


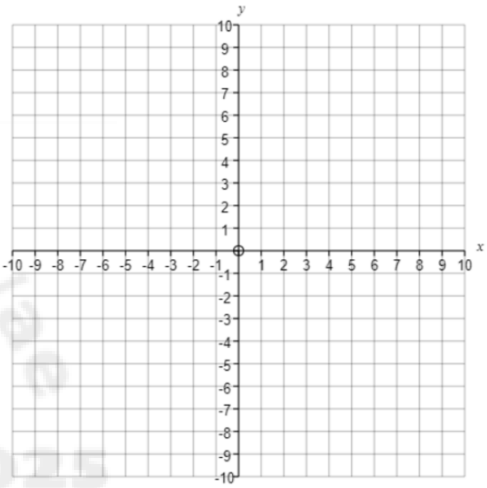
4. $y \leq -4x + 12$

5. $6x + 3y > 12$

6. $2x + 2y < 18$



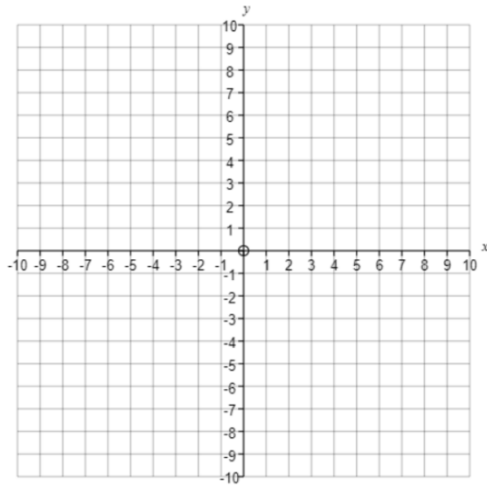


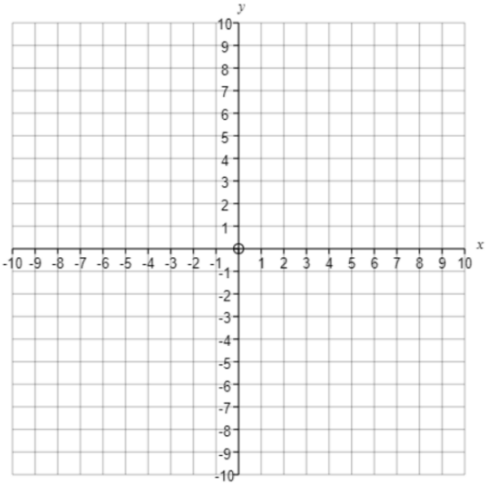


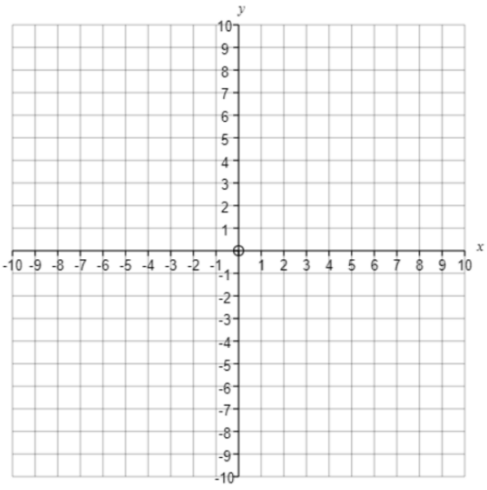
7. $5x + y > 10$

8. $2x + y < -3$

9. $-2x + y \geq -4$







7) Solve multi-step linear inequ
PAG 254 Q (16-21)

Lesson 6-2

Solving Multi-Step Inequalities

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

16. $-3(7n + 3) < 6n$

17. $21 \geq 3(a - 7) + 9$

18. $2y + 4 > 2(3 + y)$

19. $3(2 - b) < 10 - 3(b - 6)$

20. $7 + t \leq 2(t + 3) + 2$

21. $8a + 2(1 - 5a) \leq 20$

8) Solve absolute value equations
PAG 105 Q (11-18)

Lesson 2-5
Solving Equations Involving Absolute Value

Solve each equation.

11. $|7 - 2q| = 3$

12. $|4x - 2| = 26$

13. $|w + 1| = 5$

14. $|n + 2| = -1$

15. $|m - 2| = 2$

16. $|5c - 3| = 1$

17. $|2t + 6| = 4$

18. $|8k - 5| = -4$

9) Graph and interpret linear functions.
PAG 235 Q (15-18) PAG 236 Q (29-39)

Lesson 4-3

Slope-Intercept Form

15. SAVINGS Wade's grandmother gave him $100 for his birthday. Wade wants to save his money to buy a portable game console that costs $275. Each month, he adds $25 to his savings. Write an equation in slope-intercept form to represent Wade's savings y after x months.

16. FITNESS CLASSES Toshelle wants to take strength training classes at the community center. She has to pay a one-time enrollment fee of $25 to join the community center, and then $45 for each class she wants to take. Write an equation in slope-intercept form for the cost of taking x classes.

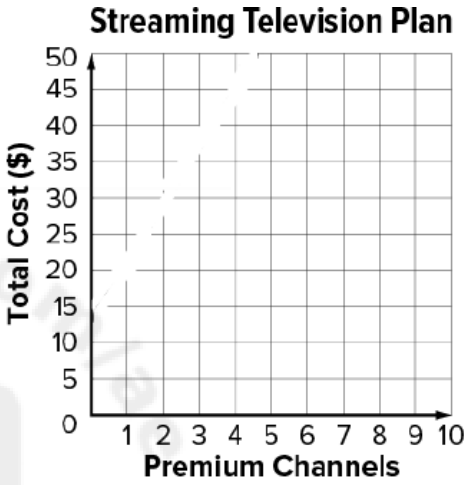
17. EARNINGS Macario works part time at a clothing store in the mall. He is paid $9 per hour plus 12% commission on the items he sells in the store. Write an equation in slope-intercept form to represent Macario's hourly wage y.

18. ENERGY From 2002 to 2005, U.S. consumption of renewable energy increased an average of 0.17 quadrillion BTUs per year. About 6.07 quadrillion BTUs of renewable power were produced in the year 2002. Write an equation in slope-intercept form to find the amount of renewable power P in quadrillion BTUs produced in year y between 2002 and 2005.

29. **STREAMING** An online company charges \$13 per month for the basic plan. They offer premium channels for an additional \$8 per month.

a. Write an equation in slope-intercept form for the total cost c of the basic plan with p premium channels in one month.

b. Graph the function.

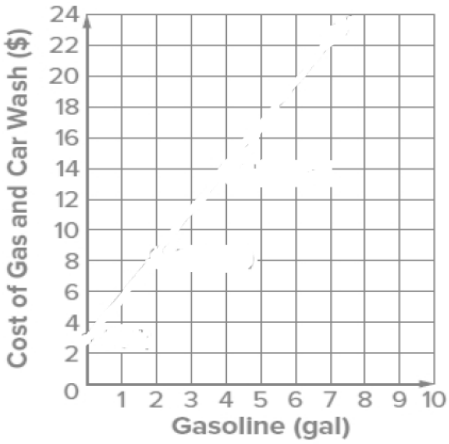


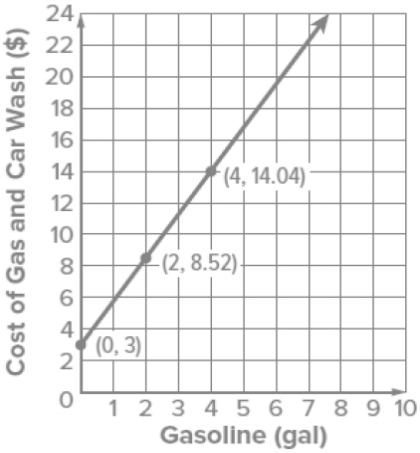
c. What would the monthly cost be for a basic plan plus 3 premium channels?

30. **CAR CARE** Suppose regular gasoline costs \$2.76 per gallon. You can purchase a car wash at the gas station for \$3.

a. Write an equation in slope-intercept form for the total cost y of purchasing a car wash and x gallons of gasoline.

b. Graph the function.





c. Find the cost of purchasing a car wash and 8 gallons of gasoline.

10) Create and identify equations of parallel or perpendicular lines.
PAG 304 Q (25-30)

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.

25. $(3, -2); y = x + 4$

26. $(4, -3); y = 3x - 5$

27. $(0, 2); y = -5x + 8$

28. $(-4, 2); y = -\frac{1}{2}x + 6$

29. $(-2, 3); y = -\frac{3}{4}x + 4$

30. $(9, 12); y = 13x - 4$

11) Identify and graph piecewise-defined function
PAG 259 EX1 266 Q(18 a,b, c, d)

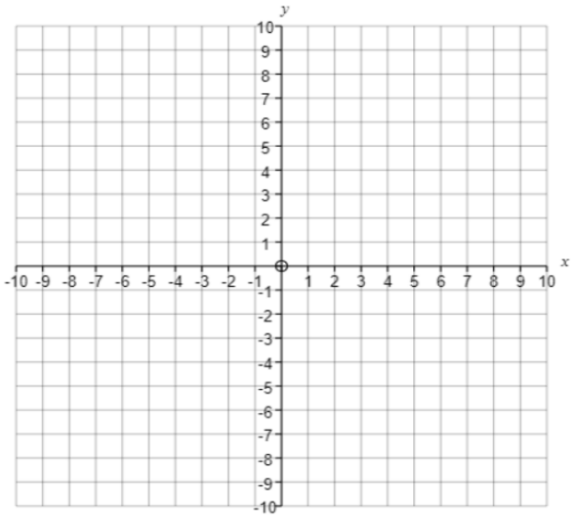
Lesson 4-6

Piecewise and Step Functions

Example 1 Graph a Piecewise-Defined Function

Graph $f(x) = \begin{cases} 2x + 4 \text{ if } x \leq 1 \\ -x + 3 \text{ if } x > 1 \end{cases}$.

State the domain and range.



18. STRUCTURE Suppose $f(x) = 2[\![x - 1]\!]$.

a. Find $f(1.5)$.

b. Find $f(2.2)$.

c. Find $f(9.7)$.

d. Find $f(-1.25)$.

12) Translate sentences into equations

Pag 71 Q (9-140

Lesson 2-1

Writing and Interpreting Equations

Translate each sentence into an equation or formula.

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

10. Seven less than the sum of p and t is as much as 6.

11. The sum of x and its square is equal to y times z.

12. Four times the sum of f and g is identical to six times g.

13. The area A of a square is the length of a side ℓ squared.

14. The perimeter P of a triangle is equal to the sum of the lengths of sides a, b, and c.

13) Solve absolute value expressions
PAG 106 Q (19-21)

Lesson 2-5
Solving Equations Involving Absolute Value

19. ENGINEERING *Tolerance* is an allowance made for imperfections in a manufactured object. The manufacturer of an oven specifies a temperature tolerance of ±15°F. This means that the temperature inside the oven will be within 15°F of the temperature to which it is set. Write and solve an absolute value equation to find the maximum and minimum temperatures inside the oven when the thermostat is set to 400°F.

20. 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.

21. **STATISTICS** The most familiar statistical measure is the arithmetic mean, or average. A second important statistical measure is the standard deviation, which is a measure of how far the data are from the mean. For example, the mean score on the Wechsler IQ test is 100 and the standard deviation is 15. This means that people within one standard deviation of the mean have IQ scores that are 15 points higher or lower than the mean.

a. One year, the mean mathematics score on the ACT test was 20.9 with a standard deviation of 5.3. Write an absolute value equation to find the maximum and minimum scores within one standard deviation of the mean.

b. What is the range of ACT mathematics scores within one standard deviation of the mean? within two standard deviations of the mean?

14) Graph and interpret linear functions.
PAG 233 check A,B,C,D,E,F PAG 236 Q (37-39)

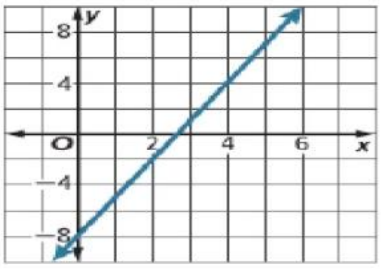
Lesson 4-3

Slope-Intercept Form

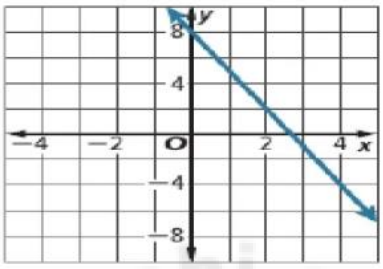
Match each graph with its equation.

? $y = 8$	? $3x + 7y = -28$	? $y = \frac{3}{7}x - 4$
? $y = -4$	? $y = -3x + 8$	? $3x - y = 8$

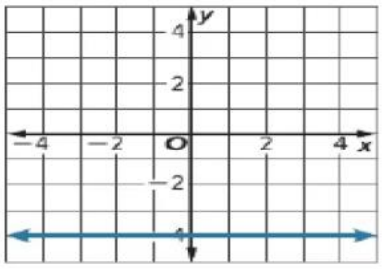
A.



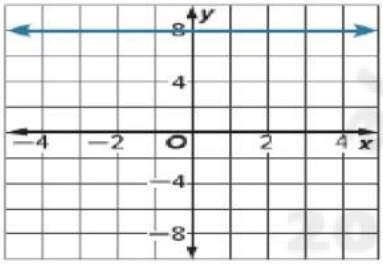
B.



C.



D.



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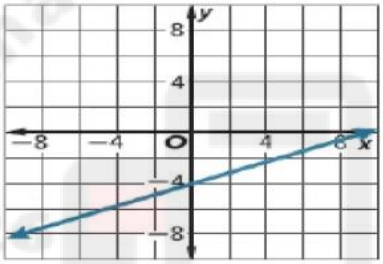

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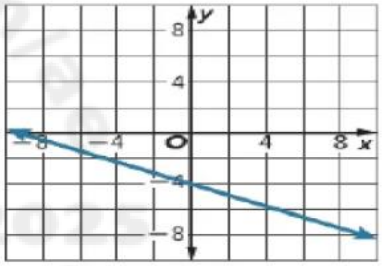
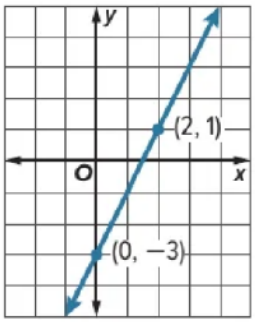


Write an equation in slope-intercept form for each graph shown.

37.



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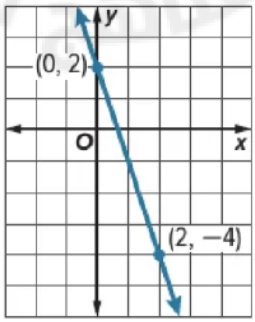
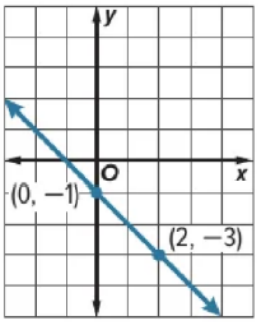


39.



15) Apply the arithmetic sequence formula
PAG 255 Q (19-22)

Lesson 4-5

Arithmetic Sequences

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

19. –3, –8, –13, –18, ...

20. –2, 3, 8, 13, ...

21. –11, –15, –19, –23, ...

22. –0.75, –0.5, –0.25, 0, ...

16) Apply translations to linear functions

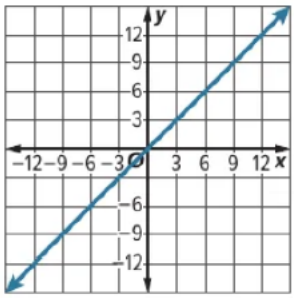
PAG 247 Q (1-6)

Lesson 4-4

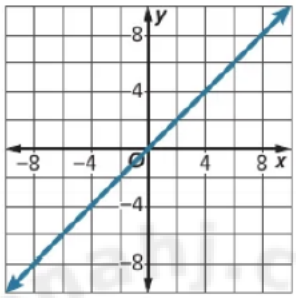
Transformations of Linear Functions

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

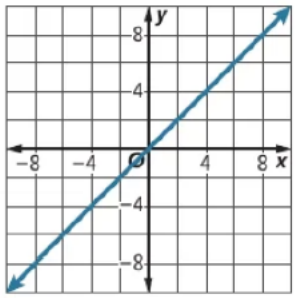
1. $g(x) = x + 11$



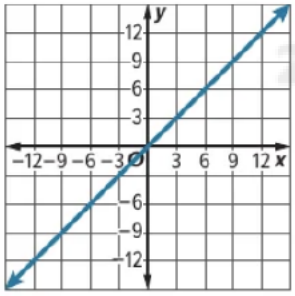
2. $g(x) = x - 8$



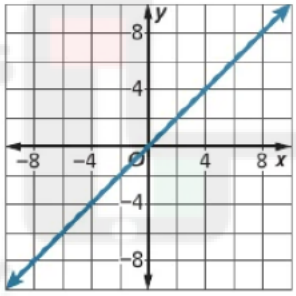
3. $g(x) = (x - 7)$



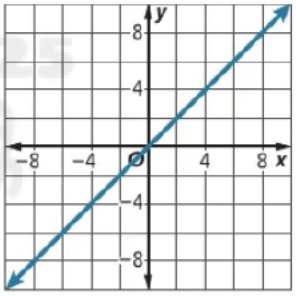
4. $g(x) = (x + 12)$



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



6. $g(x) = (x - 9) + 5$



17) Graph the solutions of an equality

PAG 341,343 ex1,ex4 PAG 347 Q(13-20)

Lesson 6-1

Solving One-Step Inequalities

Example 1 Graph Inequalities

Graph the solution set of $y \leq 4$.

Example 4 Solve Inequalities by Subtracting

Solve $x + 24 \geq 61$.

Solve each inequality.

13. $m - 4 < 3$

14. $p - 6 \geq 3$

15. $r - 8 \leq 7$

16. $t - 3 > -8$

17. $b + 2 \geq 4$

18. $13 > 18 + r$

19. $5 + c \leq 1$

20. $-23 \geq q - 30$

18) Find inverses of linear functions

PAG 332 Q (16-21)

Find the inverse of each function.

16. $f(x) = 8x - 5$

17. $f(x) = 6(x + 7)$

18. $f(x) = \frac{3}{4}x + 9$

19. $f(x) = -16 + \frac{2}{5}x$

20. $f(x) = \frac{3x + 5}{4}$

21. $f(x) = \frac{-4x + 1}{5}$

19) Write an equation of a line in slope-intercept form given two points

PAG 291 Q (11-16)

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

11. (0, −4), (5, −4)

12. (−4, −2), (4, 0)

13. (−2, −3), (4, 5)

14. (0, 1), (5, 3) **15.** (−3, 0), (1, −6) **16.** (1, 0), (5, −1)

20) Solve linear inequalities by using addition
PAG 352 ex2,ex3 & PAG 354 Q (16-21)

Lesson 6-2

Solving Multi-Step Inequalities

Example 2 Write and Solve a Multi-Step Inequality

Consider the inequality *The opposite of a number divided by two minus seventeen is less than seven.*

Translate the sentence into an inequality.

$$-\frac{x}{2} - 17 < 7$$

Example 3 Solve an Inequality with the Distributive Property

Solve the inequality $4(2x - 11) \leq -12 + 2(x - 4)$. Then graph the solution on a number line.

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

16. $-3(7n + 3) < 6n$

17. $21 \geq 3(a - 7) + 9$

18. $2y + 4 > 2(3 + y)$

19. $3(2 - b) < 10 - 3(b - 6)$

20. $7 + t \leq 2(t + 3) + 2$

21. $8a + 2(1 - 5a) \leq 20$

Part 2

21) Prove that equations are identities or have no solution
Pag 98 Q(25-36)

Lesson 2-4
Solving Equations with the Variable on Each Side

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

31) $2a + 2 = 3(a + 2)$

32) $\frac{1}{4}x + 5 = \frac{1}{4}x$

33) $7(c + 9) = 7c + 63$

34) $4k + 3 = (8k + 16)$

35) $3b - 13 + 4b = 7b + 1$

36) $\frac{1}{2}\left(\frac{1}{2}m - 8\right) = \frac{1}{4}(m - 16)$

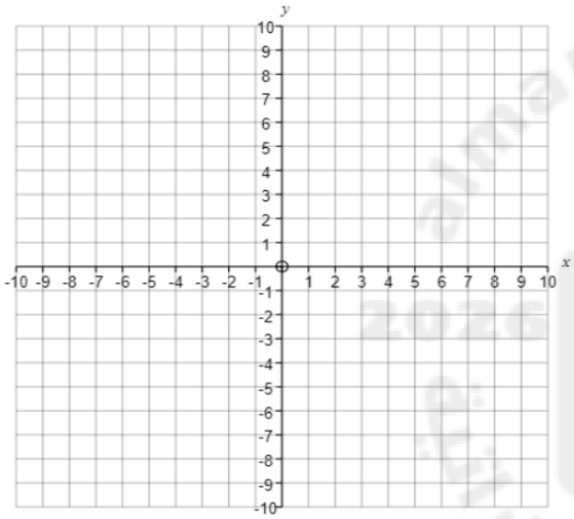
22) Graph linear functions by using the x- and y-intercepts
Pag 216 Q(9-14)

Lesson 4-1

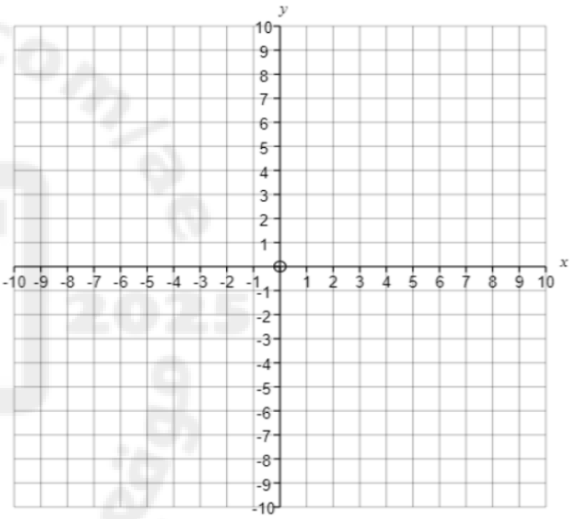
Graphing Linear Functions

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

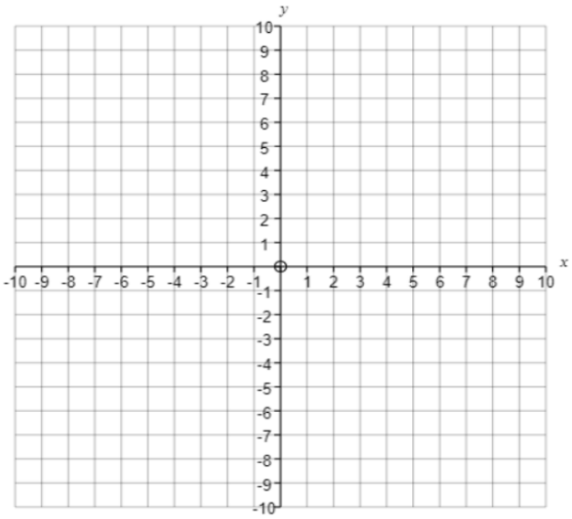
9) $y = 4 + 2x$



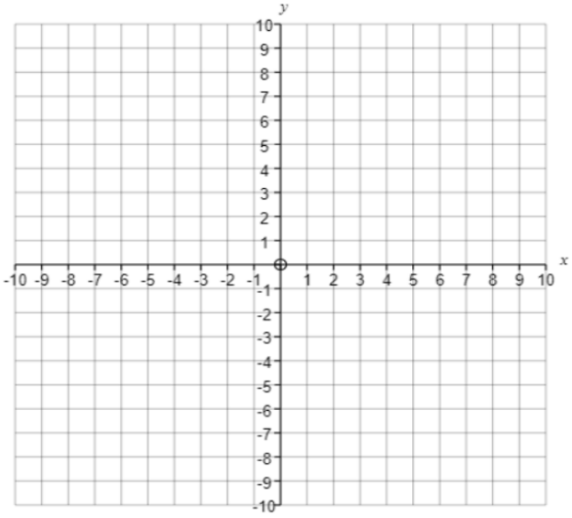
10)) $5 - y = -3x$



11)) $x = 5y + 5$

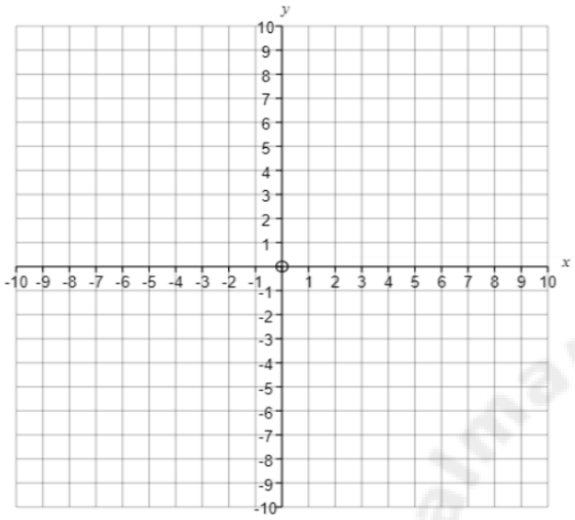


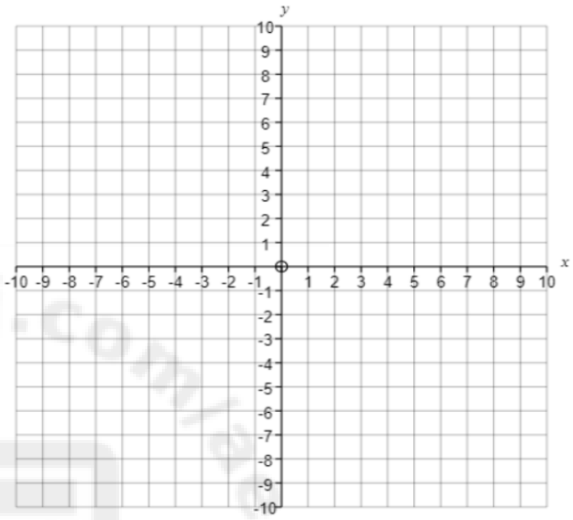
12)) $x + y = 4$



13) $x - y = -3$

14) $y = 8 - 6x$





23) Solve equations for specific variables.

Pag 125 Q(19-22)

Lesson 2-7

Using Formulas

19. RECTANGLES The formula $p = 2l + 2w$ 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 equation for g.

b. What is the height of a box with a volume of 50 cubic meters, length of 10 meters, and width of 2 meters?

22. GEOMETRY The volume of a box V is given by the formula V= lwh , 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?

24) Create and identify equations of parallel or perpendicular lines
Pag 304 Q(31-36)

Lesson 5-2
Writing Equations in Standard and Point-Slope Forms

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

31) $y = 4x + 3$
$4x + y = 3$

32) $y = -2x$
$2x + y = 3$

33) $3x + 5y = 10$
$3x + 5y = 15$

34) $-3x + 4y = 8$
$-4x + 3y = -6$

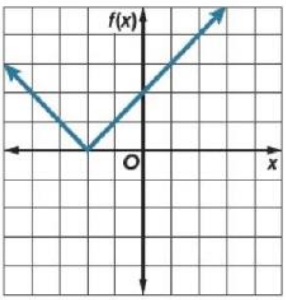
35) $2x + 5y = 15$
$3x + 5y = 15$

36) $2x + 7y = -35$
$4x + 14y = -42$

25) Calculate and interpret rate of change. Apply translations to absolute value functions	Lesson 4-7
Pag 277 Q(7-12)	Absolute Value Functions

Use the graph of the function to write its equation.

7.



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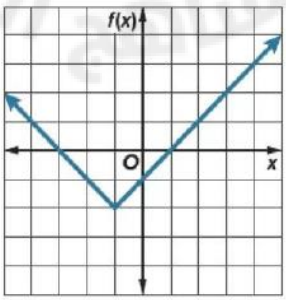

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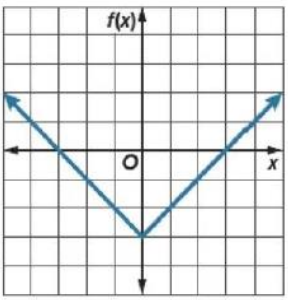
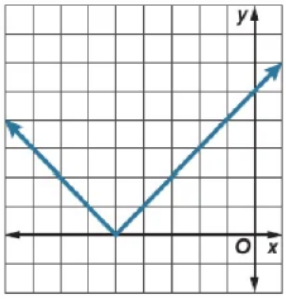
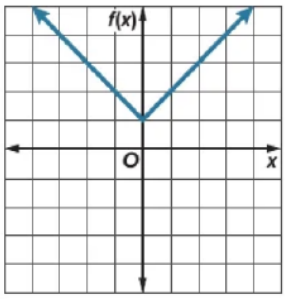
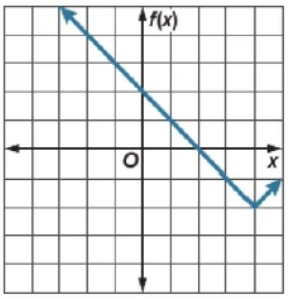


10. 

11. 

12. 

26) Solve absolute value inequalities (>)
Pag 371 Q(7-12)

Lesson 6-4

Solving Absolute Value Inequalities

Solve each inequality. Then graph the solution set.

7) $|r + 2| > 6$

8) $|k - 4| > 3$

9) $|2h - 3| \geq 9$

10) $|4p + 2| \geq 10$

11) $|5v + 3| > -9$

12) $|-2c - 3| > -4$