Practice 3 Level 1 Algebra 1 End of course STAAR 2019 **Name** _____ **Pd :** ____ **Date :** _____

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1. What is the negative solution to this equation $4x^2 + 6x - 28 = 0$?

Answer : _____

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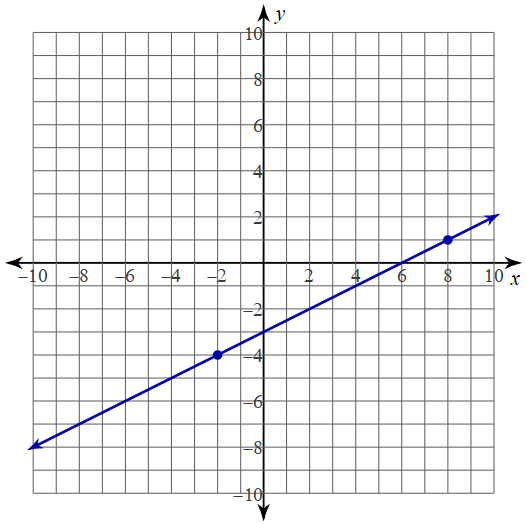
2. The graph of a linear function is shown on the grid:



Which equation is best represented by this graph ?

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

B. $y - 1 = \frac{1}{2}(x + 4)$

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

D. $y + 1 = \frac{1}{2}(x + 4)$

3. What is the solution to:

$5(16 - 2x) = 10(x + 40)$

Answer : _____

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4. What is the value of y in the solution to this system of equations?

$$y = 3x + 13$$
$$x - 3y = -15$$

F. 4 **H.** 3

G. -3 **J.** -4

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5. Which function in vertex form contains (4,-5) and (7,13)?

A. $y = 2(x - 7)^2 - 13$

B. $y = 2(x - 4)^2 - 5$

C. $y = 2(x + 4)^2 + 5$

D. $y = 2(x - 7)^2 + 13$

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6. What is the slope of the graph $2x + 3y = 6$?

F. 2 **G.** $-\frac{2}{3}$ **H.** -2 **J.** $\frac{3}{2}$

7. Which expression is equivalent to $2(n + 3) - (4n^2 + 2n) - (3n + 2)$?

A. $-4n^2 - 3x + 4$

B. $4n^2 + 7n + 5$

C. $-4n^2 + n + 5$

D. $4n^2 - 3n + 7$

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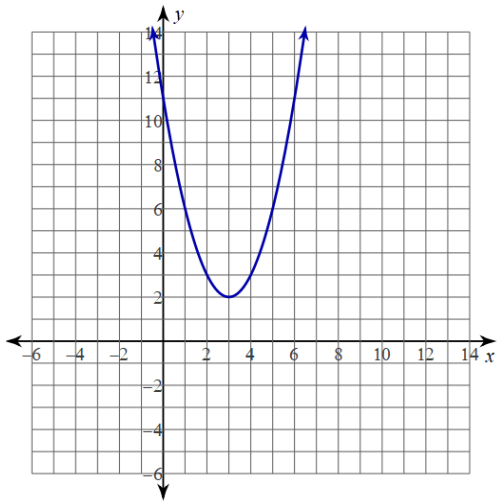
8. The graph of a quadratic function is shown on the grid:



What is true about the graph above?

F. *It has axis of symmetry at* $y = 2$

G. *It has* 2 *zeros*

H. *It has a vertical asymptote*

J. *It has a vertex at* $(3, 2)$

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9. Which value of x makes the equation $1.25(4x-5)=10$ true?

A. -1.25 **B.** 5 **C.** 1.25 **D.** 3.25

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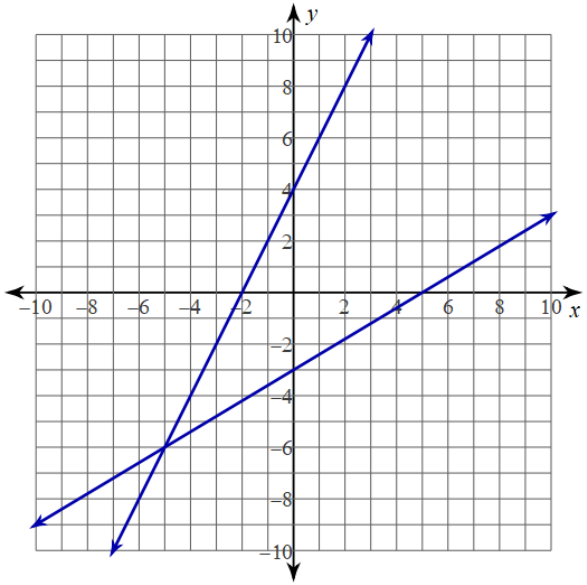
10. A system of equations is graphed on the grid



Which system of equations does the graph represent ?

F. $y=3x-5$
$2x-4y=15$

H. $y=2x+4$
$3x-5y=15$

G. $y=-3x+5$
$-2x+4y=15$

J. $y=4x+2$
$-3x+5y=15$

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11. Which is a factor of the function: $h(x)=x^2+14x-32$?

A. $x-2$
B. $x-4$
C. $x+8$
D. $x+4$

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12. Which value of x is a solution to this equation $5x^2+13x-60=0$?

A. $x=2.4$ **C.** $x=-6.4$
B. $x=5$ **D.** $x=3.4$

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13. Which expression is equivalent to $(4xy^5)^2$?

F. $16x^2y^{10}$ **H.** $8x^2y^{10}$
G. $16x^2y^7$ **J.** $8x^2y^7$

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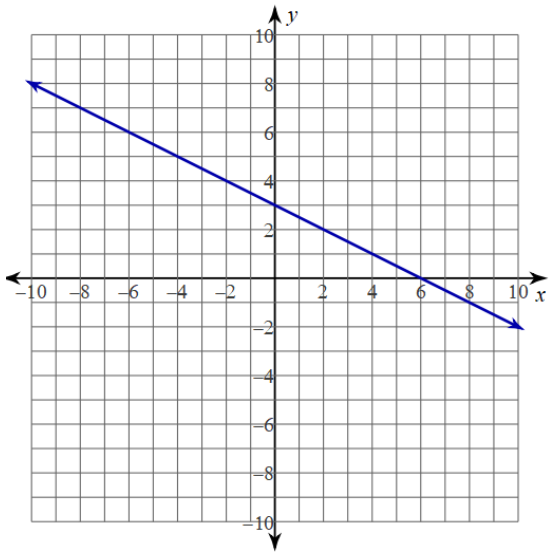
14. What is the equation in slope intercept form of a line that passes through points $(-5,7)$ and $(6,-15)$?

A. $y=-2x-3$ **C.** $y=3x+22$
B. $y=2x+3$ **D.** $y=\frac{-1}{2}x+4.5$

15. The graph of a linear function is shown on the grid.



What is the rate of change of y with respect to x for this function?
Answer : _____

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16. The table shows a linear relationship between x and y.

x	-3	6	9	15
y	9	-6	-11	-21

What is the rate of change of y with respect to x? Answer : _____.