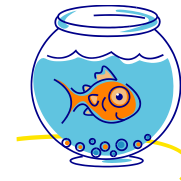


Weekly Review #13

Name: _____ Class: _____

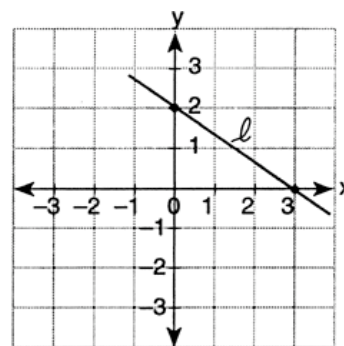
Due Date #1: **Tues, 1/6** Due Date #2: **Fri, 1/9** (Regardless of whether you have class.)1.) Which of the following is equal to $(2x - 9)^2$?

- (A) $x^2 + 81$ (C) $x^2 - 18x - 81$
 (B) $4x^2 - 36x + 81$ (D) $4x^2 + 36x - 81$



2.) Which equation matches the line shown in the graph at the right?

- (A) $y = \frac{2}{3}x + 2$ (C) $y = \frac{3}{2}x + 3$
 (B) $y = -\frac{2}{3}x + 2$ (D) $y = -\frac{3}{2}x + 3$

3.) If $y = 5x - 2$, then $-3y =$ _____?

- (A) $5x - 6$ (C) $-15x + 6$
 (B) $15x - 6$ (D) $15x + 6$

4.) Which statement below correctly describes the solution of the compound inequality

$$-3x + 2 > 11 \text{ or } 5x + 1 > 6?$$

- (A) All real numbers less than -3 or greater than 1
 (B) All real numbers greater than 3 or less than 1
 (C) All real numbers less than 3 or greater than -1
 (D) All real numbers less than -3 and greater than 1

5.) Find the value of x so that the line passing through $(10,5)$ and $(x,9)$ has a slope of -2.

- (A) 2 (C) -2
 (B) 8 (D) -8

- 6.) Which of the following is the solution for this system of equations? $5x + 3y = 26$
 $-2x + 3y = -2$

(A) (6, -1) (C) (-4, -2)
(B) (2, 5) (D) (4, 2)

- 7.) If a data set is skewed, which of the following best represents the data?

(A) mean
(B) median
(C) mode
(D) it cannot be determined from the information given

- 8.) Which of the following represents the associative property?

(A) $(a + b) + c = a + (b + c)$ (C) $(a + b) + c = c + (a + b)$
(B) $a + -a = 0$ (D) $a(b + c) = ab + ac$

- 9.) Solve: $32x - 4(7x + 3) = 16$

(A) $\frac{17}{29}$ (C) -7
(B) 1 (D) 7

- 10.) The lease agreement on a new car requires a down payment of \$1200 and \$269 a month for 24 months. There is an additional fee of \$0.15 per mile for all miles, m , driven over 25,000 miles. Which equation below is a correct model for the cost, C , of the car, if you drive more than 25,000 miles?



(A) $1200 + 269 + 0.15(25,000 - m) = C$
(B) $1200 + 269(24) + 0.15(25,000 - m) = C$
(C) $1200 + 269(24) + 0.15m = C$
(D) $1200 + 269(24) + 0.15(m - 25,000) = C$