

NAME _____

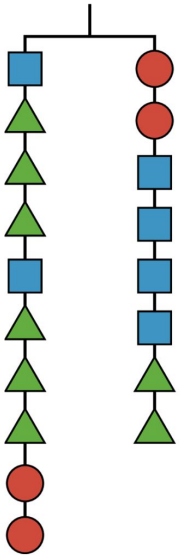
DATE _____

PERIOD _____

REVIEW for Unit 4: End-of-Unit Assessment

You may use graph paper and a four-function or scientific calculator, but not a graphing calculator.

1. Here is a balanced hanger diagram:



A square table has an area of 8 square feet and a circular table has an area of 4 square feet. What is the area of a triangular table?

- A. $\frac{3}{2}$ square feet
- B. 2 square feet
- C. $\frac{5}{4}$ square feet
- D. 4 square feet

2. Select **all** the systems of equations that have no solution.

A. $\begin{cases} y = -\frac{4}{3}x + 4 \\ y = -\frac{4}{3}x - 1 \end{cases}$

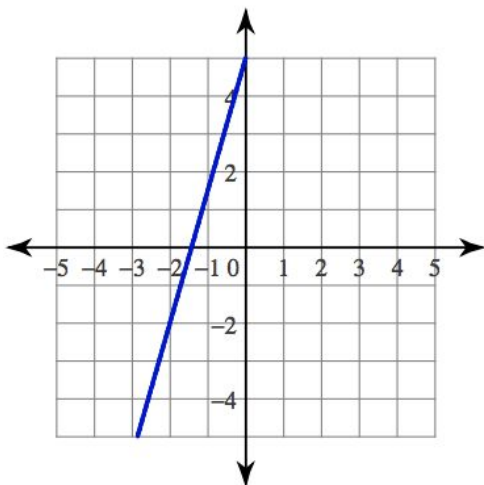
B. $\begin{cases} y = 4x - 5 \\ y = -2x + 7 \end{cases}$

C. $\begin{cases} 2x + 3y = 8 \\ 4x + 6y = 17 \end{cases}$

D. $\begin{cases} y = 5x - 15 \\ y = 5(x - 3) \end{cases}$

3. **Multiple Response**

Here is the graph for one of the equations in a system of two equations.



The solution to the system is $(-2, -2)$. Select **all** the equations that could be the other equation in the system.

A. $y = -\frac{1}{2}x - 3$

B. $y = 2x + 2$

C. $y = x + 4$

D. $y = 3x + 4$

4. Solve this equation. Explain or show your reasoning.

$$\frac{1x}{2} + 5 = \frac{1x}{3} + 8$$

5. Solve this system of equations.

a) $y = 2x + 4$
 $3x + y = 9$

b) $y = \frac{3}{2}x + 7$
 $x = -4$

6. Andre and Noah are each saving money. Andre starts with \$40 in his savings account and adds \$5 per week. Noah starts with \$5.00 in his savings account and adds \$10.00 each week.

a. After four weeks, who has more money in their savings account? Explain how you know.

b. After how many weeks will Andre and Noah have the same amount of money in their savings accounts?

7. Jada told Noah that she has \$3 worth of quarters and dimes in her pocket and 18 coins all together.

a. Complete this table showing some possible combinations of of quarters and dimes that are worth \$3.00

Number of Quarters	Number of Dimes
0	
	15
4	
	10
2	

There are 2 more dimes than quarters in Jada's pocket. How many of each coin are there? Explain or show your reasoning.