

Name: _____ Date: _____ Class: _____

SECTION 3-1 QUIZ A

Using substitution, identify the ordered pair that is not an element of the solution set of the system of equations.

$$\begin{cases} 3x - y = 2 \\ 6x - 2y = 4 \end{cases}$$

- (0, -2)
 - (1, 1)
 - (2, 4)
 - (-2, -4)
-

Using substitution, identify the ordered pair that is an element of the solution set of the system of equations.

$$\begin{cases} 3x + y = 2 \\ y - x = -6 \end{cases}$$

- (2, -4)
 - (2, 4)
 - (1, -1)
 - (1, -5)
-

Solve the system of equations using a table and a graph.

$$\begin{cases} x - 2y = 3 \\ y + 3x = -5 \end{cases}$$

- (7, 2)
- (-1, -2)
- (-1, 2)
- (-2, 1)

Classify the system of equations and identify the number of solutions.

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

- consistent, dependent; infinite
- consistent, independent; one
- inconsistent; none
- inconsistent, dependent; one

*****EXTRA CREDIT*****

There are two identical oil tanks. The level of oil in Tank A is 6 ft and is drained at the rate of 0.5 ft/min. Tank B contains 10 ft of oil and is drained at the rate of 1 ft/min. After how many minutes will the level of oil in the two tanks be the same?

- 2 minutes
- 4 minutes
- 8 minutes
- 16 minutes