

SYSTEMS OF EQUATIONS

Coloring Activity!

Directions: solve each system of equations using substitution or elimination. Show all work on a separate sheet of paper. Match the question number with the answers below. Color the picture accordingly.

Name: _____ Per: _____
Date: _____

1 $\begin{cases} y = -2x - 6 \\ y = x + 9 \end{cases}$

2 $\begin{cases} y = -x + 4 \\ y = 5x - 14 \end{cases}$

3 $\begin{cases} 3x - 4y = -31 \\ x + y = 6 \end{cases}$

4 $\begin{cases} 2x - y = -8 \\ x - 4y = -4 \end{cases}$

5 $\begin{cases} 9x + 3y = -7 \\ y = -3x + 4 \end{cases}$

6 $\begin{cases} 7x + 2y = 71 \\ 5x - y = 41 \end{cases}$

7 $\begin{cases} 8x - 3y = -16 \\ 5x + 2y = -41 \end{cases}$

8 $\begin{cases} 7x + y = -3 \\ 2x - 3y = -14 \end{cases}$

9 $\begin{cases} 4x + 3y = 19 \\ 6x - 5y = -57 \end{cases}$

10 $\begin{cases} 2x + 2y = -16 \\ y = -x - 8 \end{cases}$

11 $\begin{cases} 3x - 10y = -70 \\ 4x + 9y = 63 \end{cases}$

12 $\begin{cases} 2x - 9y = 23 \\ 5x - 3y = -1 \end{cases}$

- Red: \emptyset
- Light Green: $(-2, -3)$
- Dark Blue: $(-5, 4)$
- Brown: $(3, 1)$
- Yellow: $(-4, 0)$
- Dark Green: $(9, 4)$
- Purple: $(-5, -8)$
- Black: $(0, 7)$

