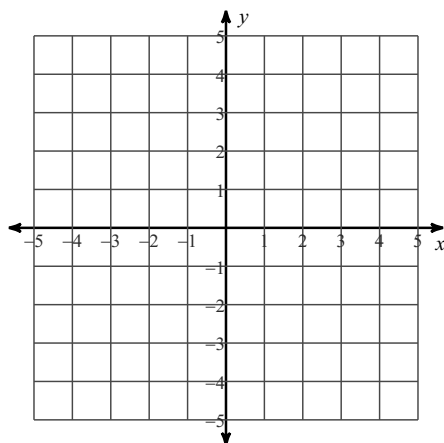


## Systems Unit Review Day 2

**Solve each system by graphing.**

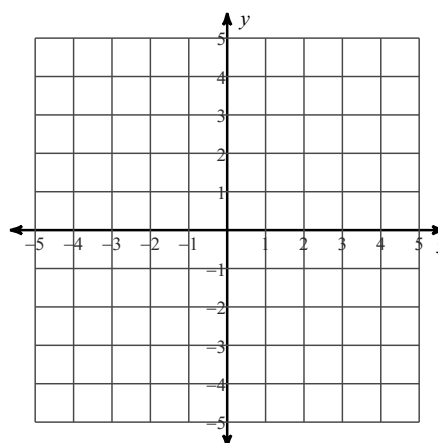
1)  $y = -\frac{5}{2}x - 1$

$y = 4$



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

$y = \frac{5}{4}x + 4$

**Solve each system by substitution.**

3)  $6x - 7y = -19$

$y = 6x - 23$

4)  $-3x - 6y = -18$

$y = 8x + 3$

$$\begin{array}{l} 5) \ x - 7y = 12 \\ \quad 5x + 5y = -20 \end{array}$$

$$\begin{array}{l} 6) \ x + 2y = 2 \\ \quad 4x - 6y = 8 \end{array}$$

**Solve each system by elimination.**

$$\begin{array}{l} 7) \ -4x + 9y = -5 \\ \quad 5x + 3y = -8 \end{array}$$

$$\begin{array}{l} 8) \ -4x + 8y = 28 \\ \quad -2x - 7y = -30 \end{array}$$

$$\begin{array}{l} 9) \ -2x + 9y = -3 \\ \quad 5x - 2y = 28 \end{array}$$

$$\begin{array}{l} 10) \ -10x + 4y = 30 \\ \quad 7x + 9y = -21 \end{array}$$

- 11) Find the value of two numbers if their sum is 22 and their difference is 4.
- 12) Julia and DeShawn are selling wrapping paper for a school fundraiser. Customers can buy rolls of plain wrapping paper and rolls of holiday wrapping paper. Julia sold 6 rolls of plain wrapping paper and 2 rolls of holiday wrapping paper for a total of \$138. DeShawn sold 12 rolls of plain wrapping paper and 3 rolls of holiday wrapping paper for a total of \$258. What is the cost each of one roll of plain wrapping paper and one roll of holiday wrapping paper?
- 13) Trevon and Mary are selling pies for a school fundraiser. Customers can buy cherry pies and pumpkin pies. Trevon sold 13 cherry pies and 5 pumpkin pies for a total of \$95. Mary sold 8 cherry pies and 10 pumpkin pies for a total of \$100. What is the cost each of one cherry pie and one pumpkin pie?

## Answers to Systems Unit Review Day 2

- |  |               |               |             |
|--|---------------|---------------|-------------|
| 1) $(-2, 4)$   | 2) $(-4, -1)$ | 3) $(5, 7)$   | 4) $(0, 3)$ |
| 5) $(-2, -2)$  | 6) $(2, 0)$   | 7) $(-1, -1)$ | 8) $(1, 4)$ |
| 9) $(6, 1)$  | 10) $(-3, 0)$ | 11) 9 and 13  |             |
| 12) roll of plain wrapping paper: \$17, roll of holiday wrapping paper: \$18 |               |               |             |
| 13) cherry pie: \$5, pumpkin pie: \$6  |               |               |             |