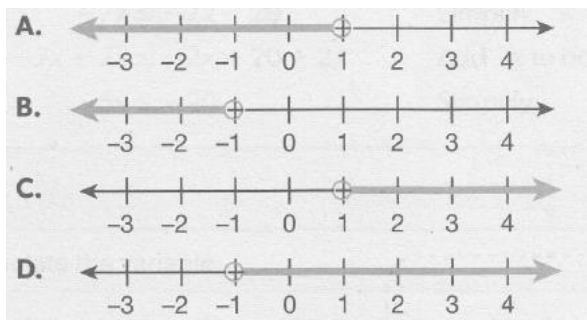
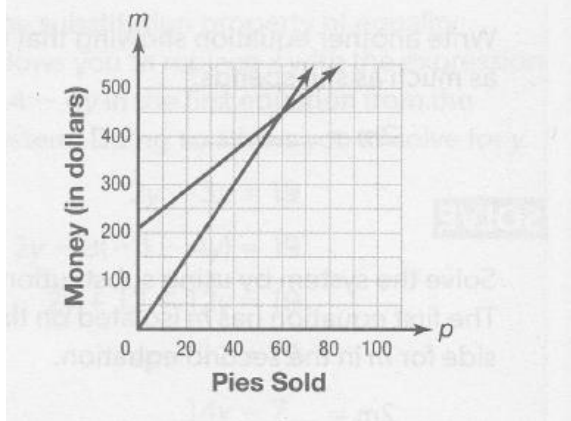


Solve.

- 1) Which graph shows the solution to the inequality $17 - x > 4x + 12$?



- 3) A baker rents space in a commercial kitchen for \$210 per week. For each pie he bakes, he spends \$4 on materials. He charges \$7.50 per pie. The graph below shows the baker's costs and revenues for a week in which he sells p pies.



- 4) Solve $7t + 2 > 6t - 7$.

- 2) Sonya opened a savings account with \$200 and deposits \$10 per week. Brad opened a savings account with \$140 and contributes \$40 per week. After how many weeks will Brad's account balance be **twice** as much as Sonya's? What will the balance be in each account then?

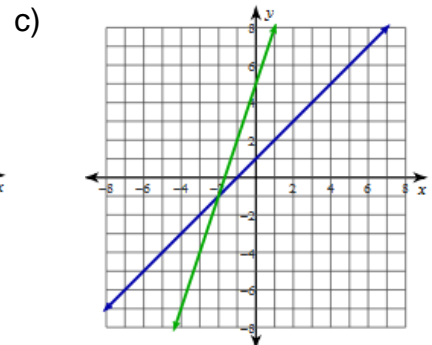
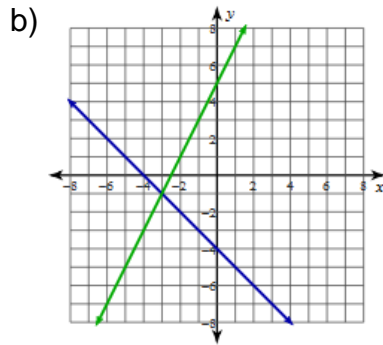
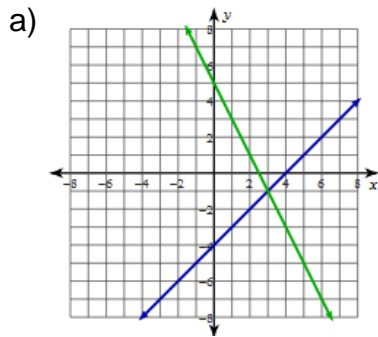
How many pies must he sell per week to break even?

- a) 20
- b) 40
- c) 60
- d) He will never break even.

- 5) Solve $\begin{cases} 3x - 5y = 13 \\ 2x - y = -3 \end{cases}$

6) Determine if $(-3,3)$ is a solution to the following system.
$$\begin{cases} 3x + 7y = 12 \\ 6x - y = -4 \end{cases}$$

7) Which of the following is the graph of the system
$$\begin{cases} y = -x - 4 \\ y = 2x + 5 \end{cases} ?$$



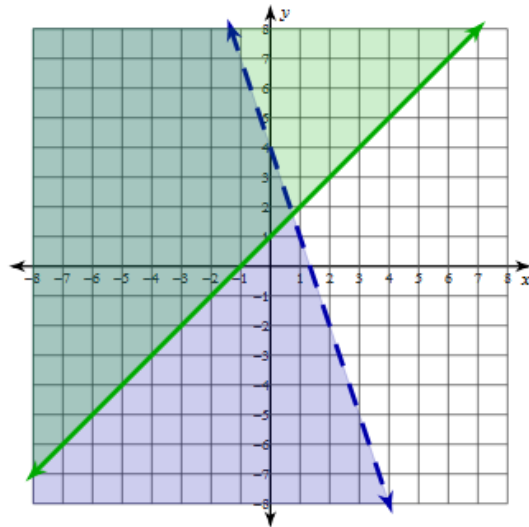
8) Indicate whether each of the following points are solutions to the system of inequalities graphed below.

a) $(-5, 0)$ _____

b) $(1, -4)$ _____

c) $(-2, -1)$ _____

d) $(0, 4)$ _____



9) How many solutions does the following system of equations have? How do you know?

$$\begin{cases} 2x + 6y = 18 \\ 3x + 9y = 27 \end{cases}$$