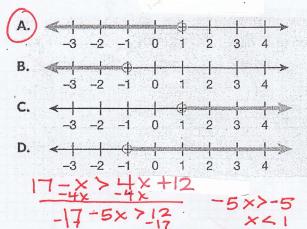
## Coordinate Algebra

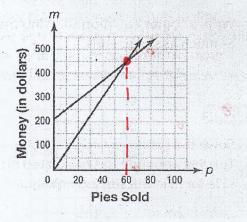
MILESTONE REVIEW—Coach Book

## 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.



Sonya opened a savings account with \$200 and deposits \$10 per week. Brad opened a savings account with \$140 and

Kei

NAME

2)

contributes \$40 per week. After how many weeks will Brad's account balance be <u>twice</u> as much as Sonya's? What will the balance be in each account then?

Brad = 2(500 ya)140+40x = 2(200+10x)140+40x = 200+20x20x=260x=13 weeks

Brad = 140 + 40(13) = 660

Sonya = 200 + 10(13) = 330

- How many pies must he sell per week to break even?
- a) 20

breakeven means Cost = revenue

b) 40

140

c) 60

d) He will never break even.

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

5) Solve  $\begin{cases} 3x - 5y = 13 \\ -5 \end{cases}$  3x - 5y = 13 $(2x - y = -3) - 10 \times +5y = 15$ 3(-4) -5y=13 -12-5y=13 +12 +12 X = -4+12 -5y=25

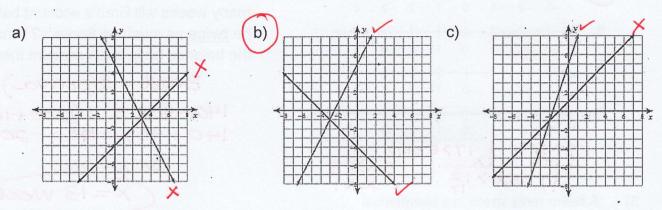
Unit 2 Review

6) Determine if (-3,3) is a solution to the following system.

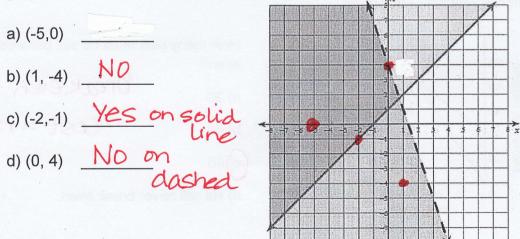
$$3(-3)+7(3)=12$$
  
 $-9+2i=12$   
 $12=12$   
 $-2i=-4$   
 $-2i=-4$   
 $-2i=-4$ 

 $\begin{cases} 3x + 7y = 12\\ 6x - y = -4 \end{cases}$ Not a solution

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.



9) How many solutions does the following system of equations have? How do you know?  $\begin{cases}
2x + 6y = 18^{2 \times 2} \\
3x + 9y = 27^{4 \times 3}
\end{cases}$ They are multiples of the same equation. So so solutions.