Name _____

5-2A Lesson Master

VOCABULARY

1. **Fill in the Blank** When graphing a system of two equations,

   the solution(s) of the system is/are the _____
   of the graphs.

PROPERTIES Objective D

2. **True or False** The two equations in a system represent a line
   $y = mx + b$ and a parabola $y = kx^2$. The system can have

   a. more than one solution. _____   b. zero solutions. _____

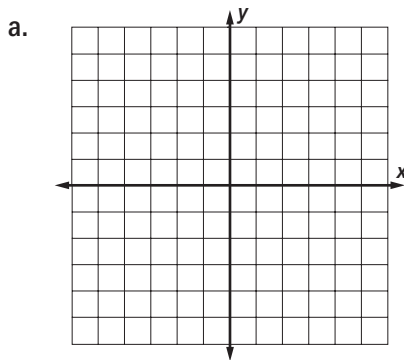### USES Objective F

3. Tonya's T-Shirts and Sari's Silk Screening each print custom t-shirts.
   Tonya charges $4.50 per t-shirt plus a $300 set-up fee. Sari charges
   $6.50 per t-shirt, plus a $100 set-up fee.

   a. For how many t-shirts would the two charge the same? _____

   b. What would the charge be for the number of t-shirts from Part a? _____

   c. For how many t-shirts would Tonya's shop be cheaper? _____
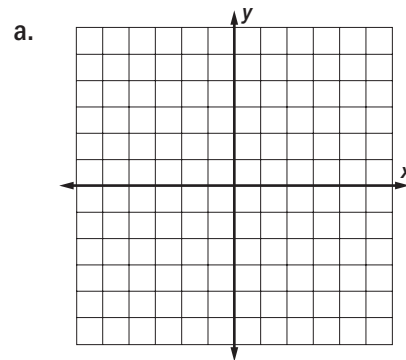
REPRESENTATIONS Objective I

**In 4 and 5, a. sketch a graph of the system and b. estimate any
intersection point to the nearest tenth.**

4. $\begin{cases} y = \frac{3}{2}x + 1 \\ y = x^2 \end{cases}$

   a.

   b. _____

5. $\begin{cases} y = \frac{10}{x} \\ 2x - 3y = 18 \end{cases}$

   a.

   b. _____