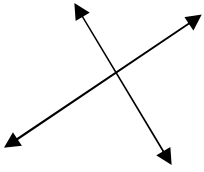


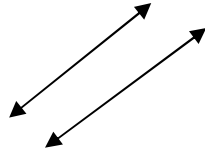
# Chapter 4 Practice Test

1. How many solutions does each have

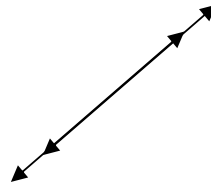
a).



b).



c).



1a. \_\_\_\_\_

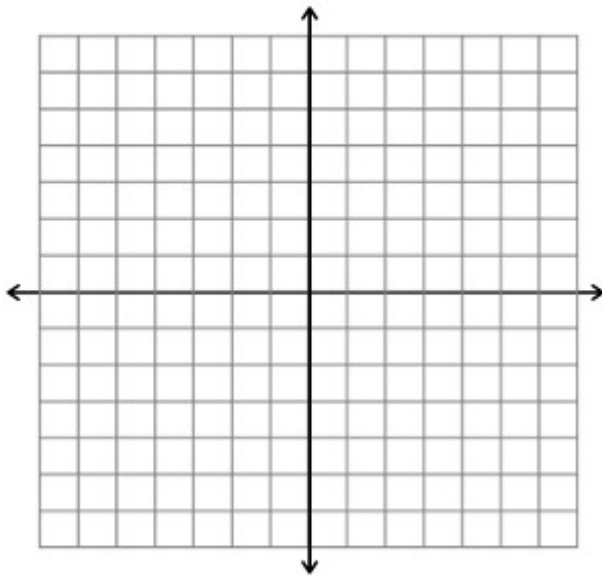
1b. \_\_\_\_\_

1c. \_\_\_\_\_

2. Solve by **graphing**

$$\begin{aligned} x &= 3y \\ 2x - 3y &= 6 \end{aligned}$$

2. \_\_\_\_\_



3. Solve using **elimination**

$$\begin{aligned} 4x - 7y &= 23 \\ 6x + 3y &= -33 \end{aligned}$$

3. \_\_\_\_\_

4. Solve using **substitution**

$$2x - 3y = 0$$

$$x + y = 5$$

4. \_\_\_\_\_

5. Solve  $x + y - 3z = 8$

$$2x - 3y + z = -6$$

$$3x + 4y - 2z = 20$$

5a. \_\_\_\_\_

6. Concert tickets are sold for \$2.50 for children and \$10.50 for adults. A total of 78 seats for a concert are sold for a total of \$483. How many adult tickets and how many child tickets were sold?

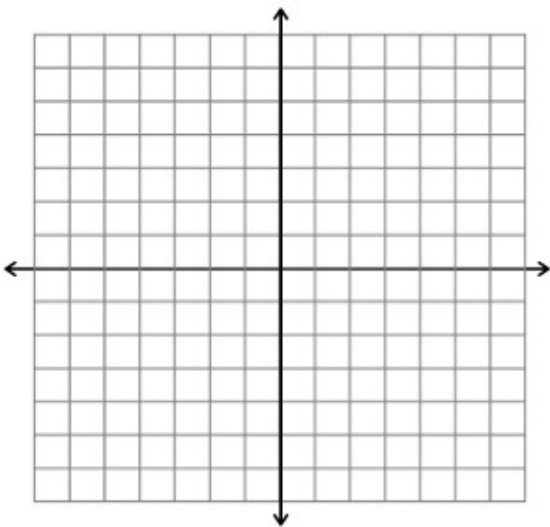
6. \_\_\_\_\_

7. In the stock market, Coca Cola stocks sell for \$35 per share and Samsung stock sells for \$45 per share. An investor buys 360 stocks altogether and spends \$15,000. How many of 7. \_\_\_\_\_  
Coca Cola and how many of Samsung did he buy?

8. Graph this system of inequalities

$$y \geq 2x + 3$$
$$3x + 5y < 0$$

8. see graph



9. A factory has three machines. When machines A, B and C are running together, they 9. \_\_\_\_\_  
make 4250 pencils. When only A and B are running, they make 2900 pencils. When B  
and C are running, they make 3050 pencils. How many pencils does each machine make?