Assignment 8

Chapter 6

Solve the systems algebraically using the elimination method. These will require you to multiply both of the equations first before adding.

1.
$$4x - 2y = 10$$
$$3x + 5y = 14$$

2.
$$4x + 3y = 4$$
$$3x + 2y = 2$$

3.
$$2x - 3y = 3$$
$$3x - 5y = 4$$

Chapter 6

These are a mix of systems solve by using one of the techniques: elimination or substitution.

1.
$$x + 3y = 11$$
$$3x + 2y = 5$$

2.
$$2x + y = 4$$
$$3x + y = 9$$

3.
$$y = 3x + 1$$
$$2x + 5y = 22$$

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4.
$$4x - 2y = 16$$
$$x + 2y = 9$$

5.
$$x = 3y$$
$$x + 2y = 10$$

6.
$$x + 3y = 7$$
$$3x - y = 1$$

7.
$$2x + 3y = 1$$
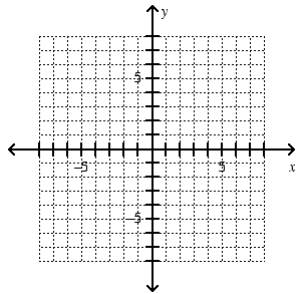$$3x + 2y = -1$$

Chapter 6

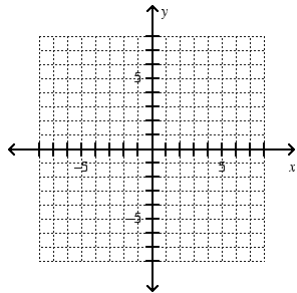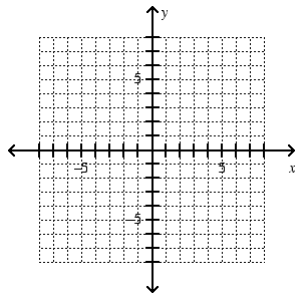*Find the solution of each system by graphing.*

1.

$y = 3$

$x + y = 5$
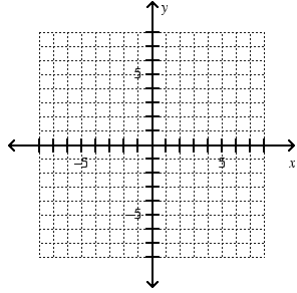
2.

$y = -2$

$x = 3$

3.

$y = 2x$

$2x + y = 8$

4.

$y = -\dfrac{1}{2}x$

$x = -4$

Chapter 5

Solve these equations for y.
Your answer should be in $\underline{y = mx + b}$ form.

1. $x + 2y = -6$
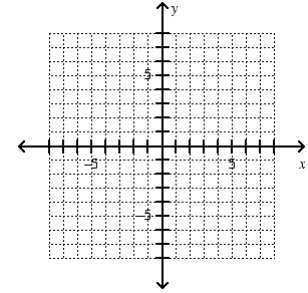
2. $4x - 3y = 15$

3. $x + 3y = 12$

4. $-x - 4y = 12$

5. $-8x + 2y = 10$

Chapter 5

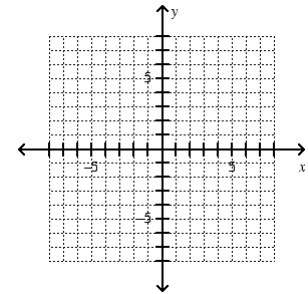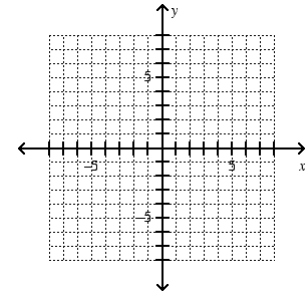*Graph these equations.*

1.

$y = 2x - 3$

2.

$y = -3x + 4$

3.

$y = x + 2$

4.

$y = -\dfrac{1}{2}x - 1$