

Chapter 7 Review

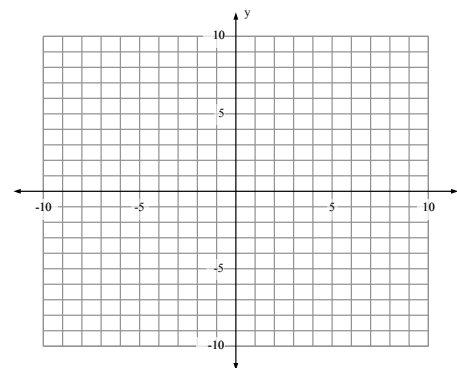
Sections 7.1 – 7.4
Solving Systems of Equations

#1

Graph and **check** to solve the linear system.

$$y = -x + 6$$

$$y = 2x - 6$$

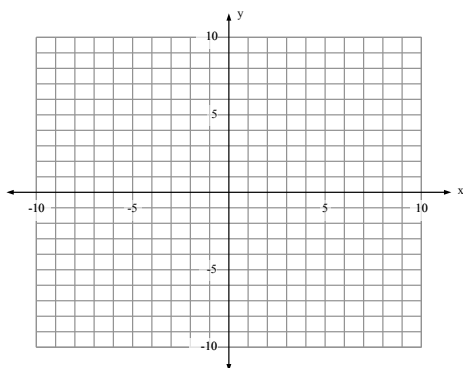


#2

Graph and **check** to solve the linear system.

$$5x - y = -5$$

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

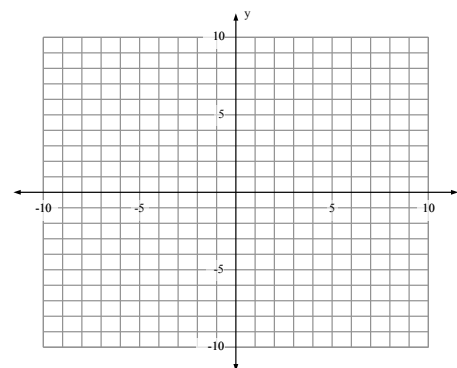


#3

Graph and **check** to solve the linear system.

$$-x + 2y = 10$$

$$3x + 6y = 6$$



#4

Use the substitution method to solve the linear system.

$$4x + y = 26$$

$$y = x - 4$$

#5

Use the substitution method to solve the linear system.

$$x + 3y = 9$$

$$4x - 2y = -6$$

#6

Use the substitution method to solve the linear system.

$$-x + 3y = 24$$

$$5x + 8y = -5$$

#7

Use elimination to solve the linear system.

$$3x + y = 10$$

$$x + 5y = 8$$

#8

Use elimination to solve the linear system.

$$4x - 30y = -20$$

$$-4x + 5y = -30$$

#9

Use elimination to solve the linear system.

$$5x + 4y = 10$$

$$3x + 3y = 9$$

#10

In early spring, you buy 6 potted tomato plants for your garden. The 8-inch potted plants sell for \$5 and the 10-inch potted plants sell for \$8. If you spend \$36, how many of each size are you buying?

#11

A store sold 28 pairs of cross-trainer shoes for a total of \$2220. *Nike* shoes sold for \$70 per pair and *Adidas* shoes sold for \$90 per pair. How many of each style were sold?

#12

Solve the linear system and tell how many solutions the linear system has.

$$2x - 3y = 1$$

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

#13

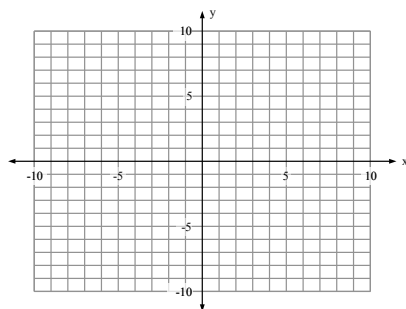
Solve the linear system and tell how many solutions the linear system has.

$$3x + y = -1$$

$$-9x - 3y = 3$$

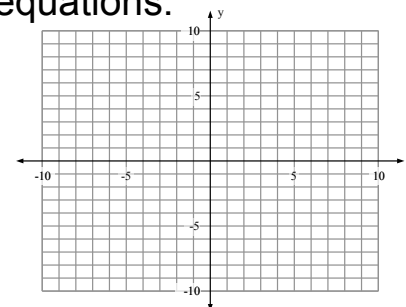
#14

Describe what the lines would look like if there is no solution to the system of equations.



#15

Describe what the lines would look like if there are infinitely many solutions to the system of equations.



#16

Is the point $(-4, -3)$ a solution to the system?

$$8x - y = -29$$

$$-9x - 3y = 26$$