Topic 3.2

Solving Systems of Equations Algebraically Homework

1.
$$y = 3x + 4$$

 $4x + 2y = 18$

$$2. \ 2x + 3y = 2$$
$$x - 3y = -17$$

$$3. 5x + 6y = 18$$
$$12y - 4x = 8$$

$$4. \ 3x - 4y = -27$$
$$2x + y = -7$$

$$5. \ x = 4y - 10$$
$$5x + 3y = -4$$

6.
$$\frac{3}{4}x - y = 0$$

 $\frac{y}{3} + \frac{x}{2} = 6$

Use elimination to solve the systems of equations.

7.
$$x - 2y = 4$$
$$y = x - 2$$

$$8. x + 3y = 18$$
$$-x + 2y = 7$$

$$9. \ 4x - 3y = 22$$
$$2x + 8y = 30$$

10.
$$\frac{1}{3}x + y = 1$$

-4x + y = 1

11.
$$y = \frac{x}{2}$$
$$2y = x + 4$$

12.
$$\frac{2}{7}x - \frac{4}{3}y = 16$$

 $\frac{4}{7}x + \frac{8}{3}y = -16$