

Name: _____

Algebra 2 – Systems of Equations

Solve the following equations:

1. $7x - 4y = -7$
 $5x + y = 22$

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

2. $-5x + 9y = -12$
 $3x + 2y = 22$

7. $6x + y = 15$
 $-7x - 2y = -10$

3. $5x + 2y = 21$
 $-x - y = -9$

8. $-x + 5y = -16$
 $-3x + 7y = -8$

4. $6x + 7y = -9$
 $-4x - 5y = 5$

9. $4x + 3y = -13$
 $-5x + 2y = -24$

5. $9x - 2y = -21$
 $2x + 3y = 16$

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

$$\begin{aligned} 11. \quad &7x + y = 4 \\ &-6x + 5y = -21 \end{aligned}$$

$$\begin{aligned} 16. \quad &6x + 3y = 13 \\ &-9x - 4y = -17 \end{aligned}$$

$$\begin{aligned} 12. \quad &4x - 3y = -10 \\ &7x + 3y = -12 \end{aligned}$$

$$\begin{aligned} 17. \quad &4x + 3y = -10 \\ &9x + 2y = 6 \end{aligned}$$

$$\begin{aligned} 13. \quad &8x + 7y = -11 \\ &4x - 3y = 14 \end{aligned}$$

$$\begin{aligned} 18. \quad &5x - 8y = -4 \\ &-10x + 4y = 5 \end{aligned}$$

$$\begin{aligned} 14. \quad &x + 10y = -14 \\ &3x + 5y = -22 \end{aligned}$$

$$\begin{aligned} 19. \quad &4x + 9y = -12 \\ &2x + 6y = -7 \end{aligned}$$

$$\begin{aligned} 15. \quad &3x - 4y = 17 \\ &9x + 8y = 11 \end{aligned}$$

$$\begin{aligned} 20. \quad &2x + 3y = 2 \\ &-8x - y = 25 \end{aligned}$$