

Algebra II
Functions #7

Name _____

Solve the following systems.

1. $5x + y = 9$
 $10x - 7y = -18$

2. $-4x + 9y = 9$
 $x - 3y = -6$

3. $-7x - 8y = 9$
 $-4x + 9y = -22$

4. $3x + 4y = 6$
 $9x - 4y = 24$

5. $2x + 8y = 6$
 $-5x - 20y = -15$

6. $-x + y = -2$
 $2x - 2y = 0$

7. $-x - 5y - 5z = 2$
 $4x - 5y + 4z = 19$
 $x + 5y - z = -20$

8. $-4x - 5y - z = 18$
 $-2x - 5y - 2z = 12$
 $-2x + 5y + 2z = 4$

9. $5x + 5y + 5z = -20$
 $4x + 3y + 3z = -6$
 $-4x + 3y + 3z = 9$

10. $x - 6y + 4z = -12$
 $x + y - 4z = 12$
 $2x + 2y + 5z = -15$

11. Where do the lines $3 + 2x - y = 0$ and $-3 - 7y = 10x$ intersect?

12. If $y = 2$ and $z = 0$, what is the x in the solution of $4x + 4y + z = 24$
 $2x - 4y + z = 0$
 $5x - 4y - 5z = 12$