

Name _____

Solving Systems of equations

Solve each system of equations.

1. $Y = x + 2$

$$Y = 2x + 1$$

2. $Y = 2x - 5$

$$Y = \frac{1}{4}x + 2$$

3. $Y = -\frac{3}{2}x + 2$

$$Y = \frac{1}{2}x - 2$$

4. $Y = 6x + 4$

$$Y = 4x - 2$$

5. $y = 3x + 7$

$$y = 5x - 7$$

6. $Y = -2x - 9$

$$y = 12x + 19$$

Write an equation for the line satisfying the given conditions.

7. Slope = -4, y intercept = 3

8. Slope = $\frac{2}{3}$, y intercept = 2

Write an equation of a line that is parallel to the given line.

9. $y = 4x + 5$

10. $Y = -\frac{3}{4}x - 5$

11. $Y = \frac{1}{3}x + 4$

Write an equation of a line that is perpendicular to the given line.

12. $y = 4x + 5$

13. $Y = -\frac{3}{4}x - 5$

14. $Y = \frac{1}{3}x + 4$

Find the missing side length.

