

PERPENDICULAR LINES WORKSHEET

Determine whether the graphs of the equations are perpendicular lines.

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

6. $2x + 6y = -3$ and $12y = 4x + 20$

2. $y = \frac{-2x + 4}{3}$ and $3x + 2y = 1$

7. $6x + y = -4$ and $6x - y = 4$

3. $x + y = 6$ and $4y - 4x = 12$

8. $4y = 12x + 5$ and $9y + 3x = 2$

4. $2x - 5y = -3$ and $5x + 2y = 6$

9. $6y - x = -12$ and $\frac{1}{6}x + y = 3$

5. $y = -x + 8$ and $x - y = -1$

10. $x - 3y = 9$ and $8y + 24x = 16$

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Write an equation for the line containing the given point and perpendicular to the given line. Graph both lines.

13. (0,6); $y - 3x = 4$

17. (-3, 2); $x - y = 5$

14. (-2, 4); $y = 2x - 3$

18. (-2, -3); $2y + 4x = 8$

15. (0, 2); $3y - x = 0$

19. (0, 0); $2x - y = 6$

16. (2, 0); $2x + y = -4$

20. (9, -2); $3x - 2y = 6$