

Section 2.3 WS

Name _____

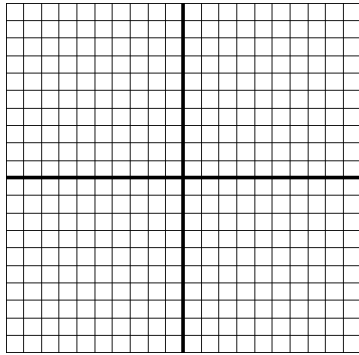
- The graph of a line with zero slope is _____.
- The graph of a line whose slope is undefined is _____.

Determine whether the graphs of the two equations are parallel, perpendicular, or neither.

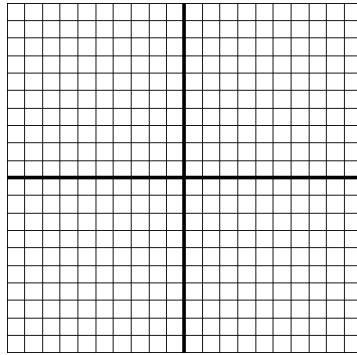
- | | | | | | | | |
|----|-------------------------------|----|---|----|---|----|--|
| 3. | $y = 3x - 4$
$y = -3x + 2$ | 4. | $y = -\frac{2}{3}x + 1$
$y = 2 - \frac{2x}{3}$ | 5. | $f(x) = 3x - 1$
$y = -\frac{x}{3} - 1$ | 6. | $y = \frac{4x}{3} + 2$
$y = 2 - \frac{3}{4}x$ |
|----|-------------------------------|----|---|----|---|----|--|

Graph the function.

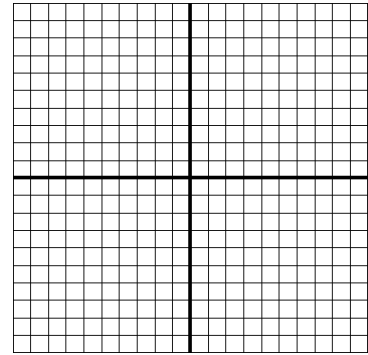
7. $y = 2x - 4$



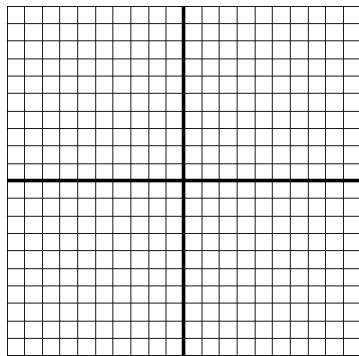
8. $y = -\frac{3}{2}x + 4$



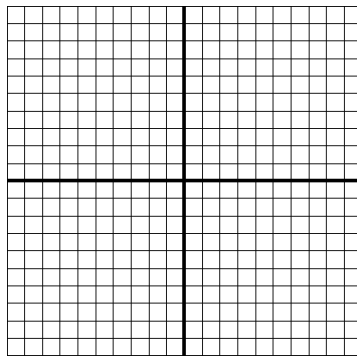
9. $y = 3$



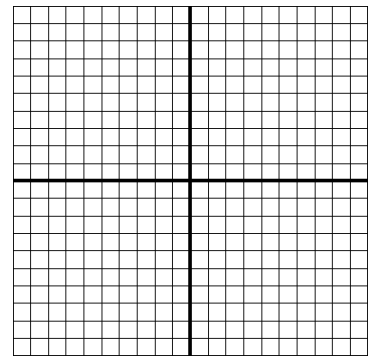
10. $y = x$



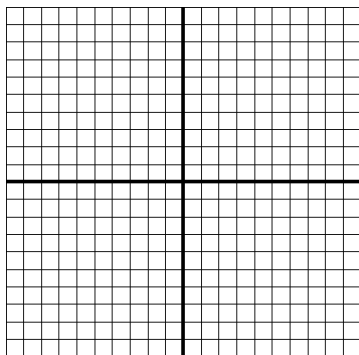
11. $2x - 5y = -15$



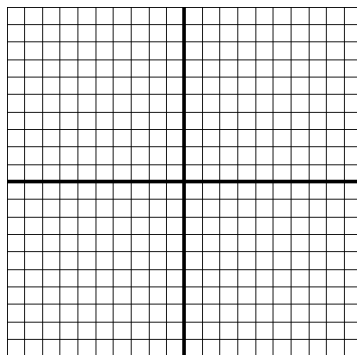
12. $x + 2y = 6$



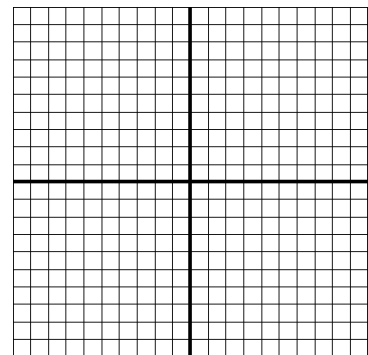
13. $x = -4$



14. $2x + y = 5$



15. $y = -x + 1$



Write the equation of the line in slope-intercept form that satisfies the given conditions.

16. Through $(-3, 2)$, slope -4 17. Through $(1, 1)$, slope 4 18. Through $(-6, 2)$, slope $\frac{2}{3}$

19. Through $(8, -1)$ and $(-4, 2)$ 20. Through $(-2, 1)$ and $(5, 1)$ 21. Through $(1, -3)$ and $(-1, -9)$

22. The graph is parallel to the graph of $y = \frac{2}{3}x - 1$ and passes through the point whose coordinates are $(-3, -1)$.

23. The graph is parallel to the graph of $2x - 5y = 2$ and passes through the point whose coordinates are $(5, 2)$.

24. The graph is perpendicular to the graph of $y = -x + 3$ and passes through the point whose coordinates are $(-5, 2)$.

25. The graph is perpendicular to the graph of $3x - 2y = 5$ and passes through the point whose coordinates are $(-3, 4)$.