

WORKSHEET FOR 7.3.1 - 7.3.2

Problems

Write the equation of the line with the given slope that passes through the given point.

1. slope = 5, (3, 13)

2. slope = $-\frac{5}{3}$, (3, -1)

3. slope = -4, (-2, 9)

4. slope = $\frac{3}{2}$, (6, 8)

5. slope = 3, (-7, -23)

6. slope = 2, ($\frac{5}{2}$, -2)

Write the equation of the line parallel to the given line that goes through the given point.

7. $y = \frac{3}{5}x + 2$ (0, 0)

8. $y = 4x - 1$ (-2, -6)

9. $y = -2x + 5$ (-4, -2)

10. $y = 4x + 5$ (-6, -28)

11. $y = \frac{1}{3}x - 1$ (6, 9)

12. $y = 3x + 8$ (0, $\frac{1}{2}$)

Write the equation of the line perpendicular to the given line that goes through the given point.

13. $y = \frac{3}{5}x + 2$ (0, 0)

14. $y = 4x - 1$ (-2, 6)

15. $y = -2x + 5$ (-4, -2)

16. $y = \frac{1}{3}x - 1$ (6, -2)

17. $y = 4x + 5$ (20, -28)

18. $y = 3x + \frac{1}{2}$ (0, $\frac{1}{2}$)