

Determine an equation of the parallel line described. Write your answer in both point-slope form and slope-intercept form.

21. What is the equation of a line parallel to $y = \frac{4}{5}x + 2$ that passes through $(1, 2)$?

22. What is the equation of a line parallel to $y = -5x + 3$ that passes through $(3, 1)$?

23. What is the equation of a line parallel to $y = 7x - 8$ that passes through $(5, -2)$?

24. What is the equation of a line parallel to $y = -\frac{1}{2}x + 6$ that passes through $(-4, 1)$?

Determine an equation of the perpendicular line described. Write your answer in both point-slope form and slope-intercept form.

25. What is the equation of a line perpendicular to $y = 2x - 6$ that passes through $(5, 4)$?

26. What is the equation of a line perpendicular to $y = -3x + 4$ that passes through $(-1, 6)$?

27. What is the equation of a line perpendicular to $y = -\frac{2}{5}x - 1$ that passes through $(2, -8)$?

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28. What is the equation of a line perpendicular to $y = \frac{3}{4}x + 12$ that passes through $(12, 3)$?