

HW 3.6 p194 13-15, 24-27, 33,34, 37 38

Write the equation of each line in the given form.

13. the line through $(0, -2)$ and $(4, 6)$ in point-slope form
14. the line through $(5, 2)$ and $(-2, 2)$ in slope-intercept form
15. the line through $(6, -4)$ with slope $\frac{2}{3}$ in point-slope form

Write the equation of each line in slope-intercept form. Then graph the line.

24. through $(-6, 2)$ and $(3, 6)$
25. horizontal line through $(2, 3)$
26. through $(5, -2)$ with slope $\frac{2}{3}$
27. x -intercept 4, y -intercept -3

Determine whether the lines are perpendicular.

33. $y = 3x - 5$, $y = -3x + 1$
34. $y = -x + 1$, $y = x + 2$

Multi-Step Given the equation of the line and point P not on the line, find the equation of a line parallel to the given line and a line perpendicular to the given line through the given point.

37. $y = 3x + 7$, $P(2, 3)$
38. $y = -2x - 5$, $P(-1, 4)$