Algebra II   Worksheet #2   Unit 2   selected solutions

Write the equation of each line described. If the line is oblique, use slope-intercept form.

1. The horizontal line through (3,-5). $y = -5$

5. The line with slope 2 and y-intercept 1. $y = 2x + 1$

7. The line through (3, 1) and (0, 5). $\underline{\quad y = \dfrac{-4}{3}x + 5 \quad}$

$m = \dfrac{5-1}{0-3} = \dfrac{-4}{3}$ $b = 5$

8. The line with slope 2/3 through (6, 2). $\underline{\quad y = \dfrac{2}{3}x - 2 \quad}$

$$y - 2 = \frac{2}{3}(x - 6)$$

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

12. The line through (-1, 2) and (1, 5). $\underline{\quad y = \dfrac{3}{2}x + \dfrac{7}{2} \quad}$

$m = \dfrac{5-2}{1+1} = \dfrac{3}{2}$ $y - 5 = \dfrac{3}{2}(x - 1)$

$$y - 5 = \frac{3}{2}x - \frac{3}{2}$$