Algebra II Worksheet #3 Unit 2 selected solutions

Find the equation of each line described below. If the line is oblique, write the slope-intercept equation. Graph both equations (the given equation as well as your solution).

Through (-2, 3) parallel to -3x + 2y = 41. 2y = 3x + 4 $y = \frac{3}{2}x + 2$ $m_1 = \frac{3}{2}$ first $m_2 = \frac{3}{2}$ < $y-3=\frac{3}{2}(x+2)$ $y-3=\frac{3}{2}x+3$ Υ $y = \frac{3}{2}x + 6$ $y = \frac{3}{2}x + 2$ $y = \frac{3}{2}x + 6$ Х 10. Through (3, -2) perpendicular to 2x - 5y = 10-5y = -2x + 10 $m_2 = \frac{5}{2}$ < $y = \frac{2}{5}x - 2$ $m_1 = \frac{2}{5}$ > first $y + 2 = \frac{-5}{2}(x - 3)$ $y + 2 = \frac{-5}{2}x + \frac{15}{2}$ νY $y = \frac{-5}{2}x + \frac{11}{2}$ $y = \frac{-5}{2}x + \frac{11}{2}$ Х 0 $y = \frac{2}{5}x - 2$