

Name: SOLUTIONS

Math 1260 Quiz #6 - June 1, 2006

1. Find the slope of the line through (4, 5) and (-1, 2).

$$\frac{5-2}{4-(-1)} = \left(\frac{3}{5}\right)$$

2. Find the slope of a line perpendicular to  $6x = y - 3$ .

$$\left(-\frac{1}{6}\right)$$

3. Give the point-slope equation of the line passing through (2, 3) with slope  $-3/4$ .

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

4. Find the slope-intercept form for the line with  $x$ -intercept  $-2/3$  and parallel to  $2x - y = 4$ . Then sketch the graph of the line, labelling your axes and the  $x$  and  $y$  intercepts.

$$\text{slope} = 2 \quad \text{point} = \left(-\frac{2}{3}, 0\right)$$

$$y = 2\left(x + \frac{2}{3}\right)$$

$$\boxed{y = 2x + \frac{4}{3}}$$

