MATH 162 Quiz 4 NAME:

1. Find an equation of the line passing through A(-1,4) with slope $\frac{2}{3}$.

Using the point-slope form of an equation, we obtain

$$y-4=\frac{2}{3}(x+1),$$
 or $y=\frac{2}{3}x+\frac{14}{3}$.

2. Find an equation of the line parallel to 5x - 2y = 4 and passing through (2, -4).

The slope of the line 5x-2y=4 is $\frac{5}{2}$, so that the line in question must have the slope slope. Hence

$$y + 4 = \frac{5}{2}(x - 2).$$

3. Find the domain of $f(x) = \sqrt{9 - x^2}$.

Domain of f = [-3, 3] as $9 - x^2 \ge 0$.