Name:

Find the equation of the line passing through (-3.8) and (5.11).

$$M = \frac{y_2 - y_1}{x_2 - x_1}$$

$$= \frac{11 - 8}{5 + 3}$$

$$=\frac{3}{8}$$

$$y = mx + b$$

 $y = \frac{3}{8}x + b$
Sub in either point.
 $x = 5$, $y = 11$: $11 = \frac{3}{8}(s) + b$

$$x = 5$$
, $y = 11$: $11 = \frac{3}{8}(5) + 6$

$$11 = \frac{15}{8} + 6$$

$$\frac{8}{88} - \frac{8}{12} = 9$$

$$\frac{73}{8} = 6$$

$$y = \frac{3}{8} \pm \frac{73}{8}$$