

**Section P.2 Linear Models and Rates of Change**

**Ex.1** Plot the points and find the slope:  $(1,1)$  and  $(-2,7)$

**Ex.2** Plot the points and find the slope:  $\left(\frac{7}{8}, \frac{3}{4}\right)$  and  $\left(\frac{5}{4}, -\frac{1}{4}\right)$

**Ex.3** Find the slope and the y-intercept:  $6x - 5y = 15$

**Ex.4** Find an equation of the line passing through the two points:  $(-3,6)$  and  $(1,2)$

Ex.5 Find an equation of the line passing through the point  $(4, -5)$ , and perpendicular to

$$3x + 4y = 7.$$