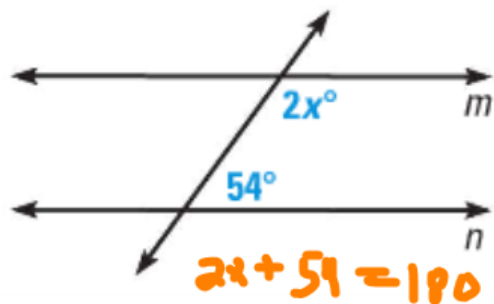


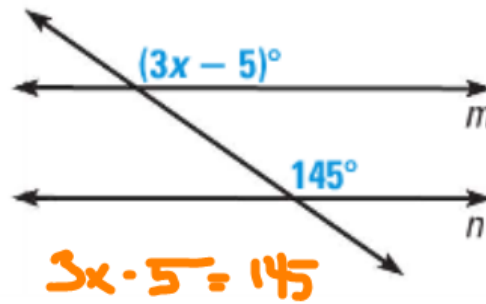
# Warm-up

Find the value of  $x$  that makes  $m \parallel n$ . (p. 161)

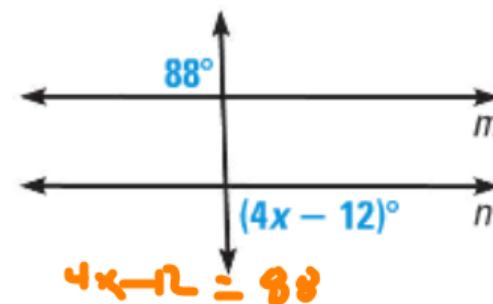
1.



2.



3.



Find the slope of the line that passes through the given points. (p. 171)

4.  $(1, -1), (3, 3)$

$$\frac{3 - (-1)}{3 - 1} =$$

5.  $(1, 2), (4, 5)$

$$\frac{5 - 2}{4 - 1}$$

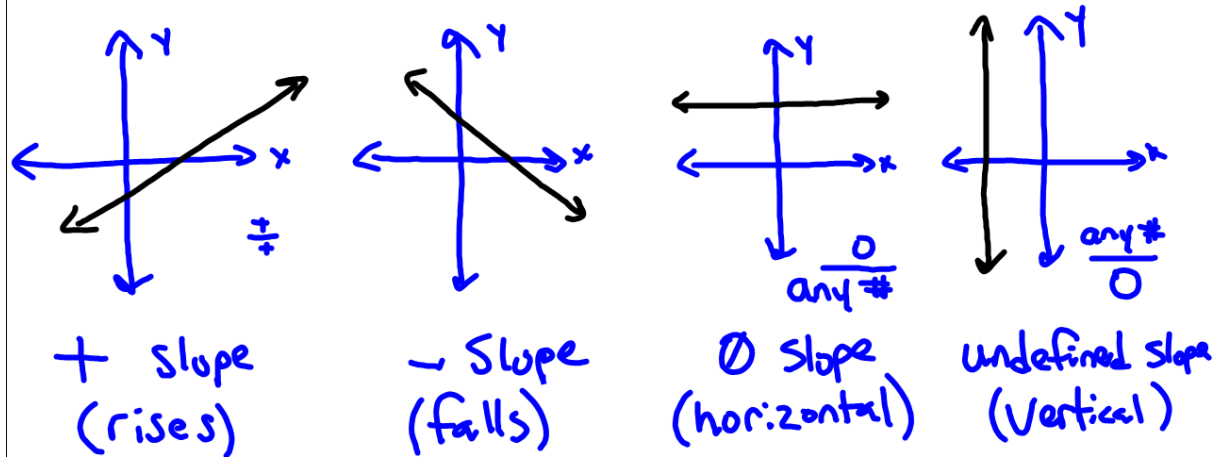
6.  $(-3, -2), (-7, -6)$

$$\frac{-2 - (-6)}{-3 - (-7)}$$

## 3.4b More with Slope

+, -, 0 & undefined

$$\text{Slope} = \frac{y_1 - y_2}{x_1 - x_2} = \frac{\text{rise}}{\text{run}}$$



Parallel lines have the same slope

$$\text{ex. } m = -\frac{1}{2} \quad \parallel m = -\frac{1}{2}$$

Perpendicular lines have slopes that are opposite sign & reciprocals

$$\text{ex } m = -\frac{9}{16} \quad \perp m = \frac{16}{9}$$