Remarks:

- Slope is positive, m > 0, if the line is leaning upward to the right.
- The slope is negative, m < 0, if the line is leaning upward to the left.</li>
- Slope is zero, m = 0, if the line is horizontal.
- Slope is not defined if the line is vertical (parallel to the y-axis)
- A line through (x, -4) and (6, 11) is parallel to the line through (2,5) and (-3,8). Find x. Example 1

Solution:

Let  $L_1$  consists of points (x, -4) and (6, 11) and  $L_2$  consists (2,5) and (-3,8). Then let  $m_1$  and  $m_2$  be the slopes of these lines respectively. So,

$$m_1 = \frac{11 - (-4)}{6 - x} = \frac{15}{6 - x}$$
 and  $m_2 = \frac{8 - 5}{-3 - 2} = \frac{3}{-5}$   
Since  $L_1 \parallel L_2$  then  $m_1 = m_2$ . Hence  $\frac{3}{6 - x} = \frac{3}{-5}$ . Thus,  $x = 31$ .

A line through (2, -10) and (-2,y) is perpendicular to a line through (5, -5) and (-3, -7). Example 2 Determine the value of y.

Solution:

Let  $L_1$  consists of points (2, -10) and (-2, y) and  $L_2$  consists (5, -5) and (-3, -7). Then let  $m_1$  and  $m_2$  be the slopes of these lines respectively. So,

$$m_1 = \frac{y - (-10)}{-2 - 2} = \frac{y + 10}{-4}$$
 and  $m_2 = \frac{-7 - (-5)}{-3 - 5} = \frac{-2}{-8} = \frac{1}{4}$   
Since  $L_1 \perp L_2$  then  $m_1 = -1/m_2$ . Hence  $\frac{y + 10}{-4} = -4$ . Thus,  $y = 6$ .

Angle Between Two Lines 3.5



# **Analytic Geometry Unit 3 Answers**

**Esther M. Leithold** 

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