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.
- 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



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