

Remarks:

1. Slope is positive, $m > 0$, if the line is leaning upward to the right.
2. The slope is negative, $m < 0$, if the line is leaning upward to the left.
3. Slope is zero, $m = 0$, if the line is horizontal.
4. Slope is not defined if the line is vertical (parallel to the y-axis)

Example 1 A line through $(x, -4)$ and $(6, 11)$ is parallel to the line through $(2, 5)$ and $(-3, 8)$. Find x .

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,

$$m_1 = \frac{11 - (-4)}{6 - x} = \frac{15}{6 - x} \quad \text{and} \quad m_2 = \frac{8 - 5}{-3 - 2} = \frac{3}{-5}$$

Since $L_1 \parallel L_2$ then $m_1 = m_2$. Hence $\frac{15}{6 - x} = \frac{3}{-5}$. Thus, $x = 31$.

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

Determine the value of y .

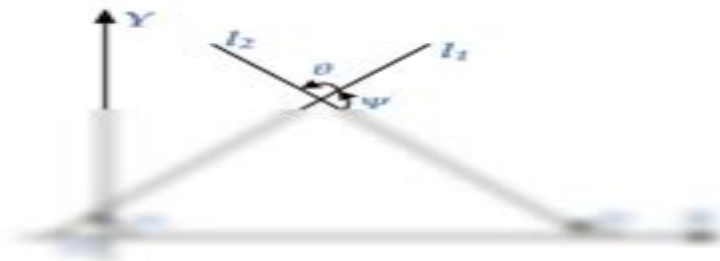
Solution:

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,

$$m_1 = \frac{y - (-10)}{-2 - 2} = \frac{y + 10}{-4} \quad \text{and} \quad m_2 = \frac{-7 - (-5)}{-3 - 5} = \frac{-2}{-8} = \frac{1}{4}$$

Since $L_1 \perp L_2$ then $m_1 = -1/m_2$. Hence $\frac{y + 10}{-4} = -4$. Thus, $y = 6$.

3.5 Angle Between Two Lines



Let us find the slope of L_1 and the slope of L_2 . Suppose if the angle between L_1 and L_2 then

$$\tan \theta = \left| \frac{m_2 - m_1}{1 + m_1 m_2} \right|$$

Example Find the angle between the lines through the points $(1, 2)$ and $(3, 5)$ and the line through $(4, 1)$ and $(2, 3)$.

Solution:

Let L_1 contains the points $(1, 2)$ and $(3, 5)$. So, $m_1 = \frac{5 - 2}{3 - 1} = \frac{3}{2}$. Also, let L_2 contains the points $(4, 1)$ and $(2, 3)$. Then $m_2 = \frac{3 - 1}{2 - 4} = \frac{2}{-2} = -1$.

$$m_1 = \frac{3}{2} \quad \text{and} \quad m_2 = -1$$

Now,

$$\tan \theta = \left| \frac{m_2 - m_1}{1 + m_1 m_2} \right| = \left| \frac{-1 - \frac{3}{2}}{1 + \left(\frac{3}{2}\right)(-1)} \right| = \left| \frac{-\frac{5}{2}}{1 - \frac{3}{2}} \right| = \left| \frac{-\frac{5}{2}}{\frac{2 - 3}{2}} \right| = \left| \frac{-\frac{5}{2}}{\frac{-1}{2}} \right| = 5$$

Ex. 1 Find the angle between

a. Two parallel lines

The general equation of two parallel lines is $ax + by + c_1 = 0$ and $ax + by + c_2 = 0$. So, $m_1 = m_2 = -\frac{a}{b}$.

Then $\tan \theta = 0$ and $\theta = 0^\circ$.

Analytic Geometry Unit 3 Answers

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