

$$\times 1 = -3$$

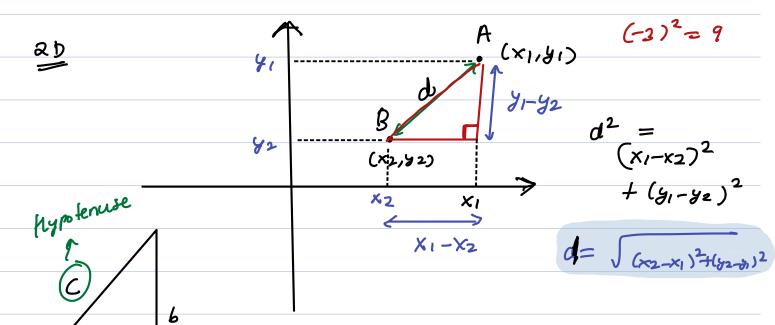
$$x = 8$$

$$x 2 = 8$$

$$x2 = -3$$

$$x_2 - x_1 = 8 - (-3)$$

$$x_2 - x_1 = -3 - 8 = -11$$

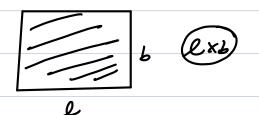


Pythagorous Theo ren:

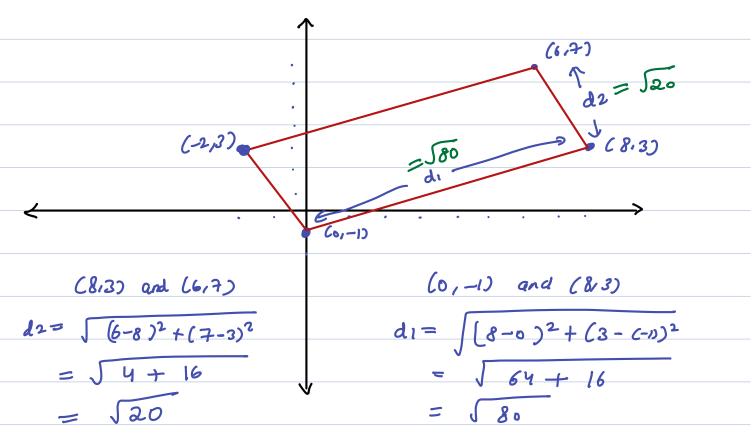
$$c^2 = a^2 + b^2$$

$$C = \sqrt{\alpha^2 + b^2}$$

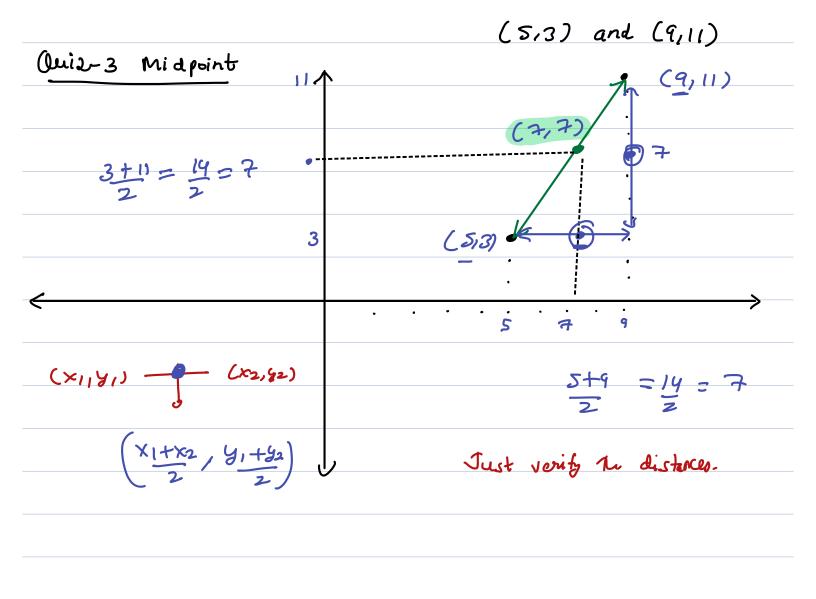
Quiz-2 Area of Rectargle

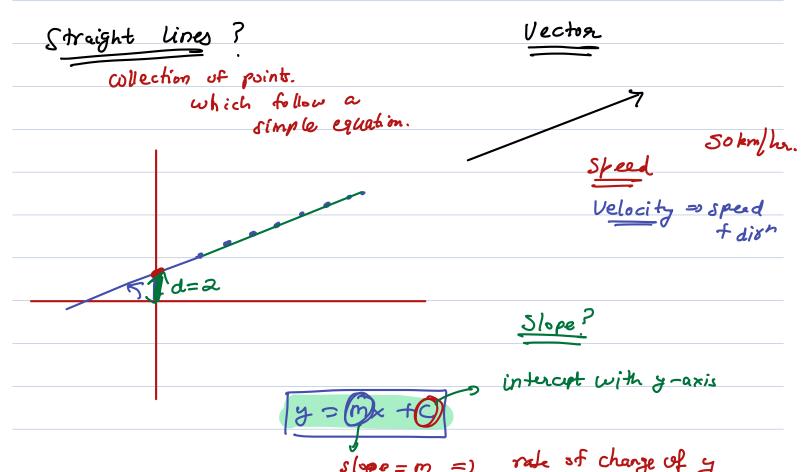


(0,-1), (6,7), (-2,3), (8,3)



Area = 
$$d_1 \times d_2$$
  
=  $\int 80 \times \sqrt{20}$   
=  $\int 1600 = (40)$ 





$$y=2\times \qquad \int x=1\rightarrow 2 \qquad \Delta x=2-1=1$$

$$L y=2\rightarrow y \qquad \Delta y=4-2=2$$

$$y = -2 \times \times = 1 \rightarrow 2$$
  $\Delta x = 2 - 1 \neq 1$ 

Quia 
$$y = 5 \times +3$$

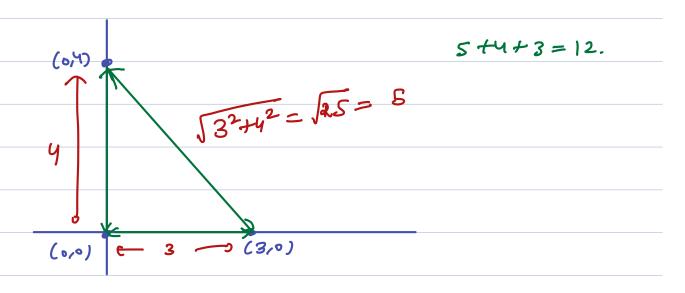
$$m = 5$$

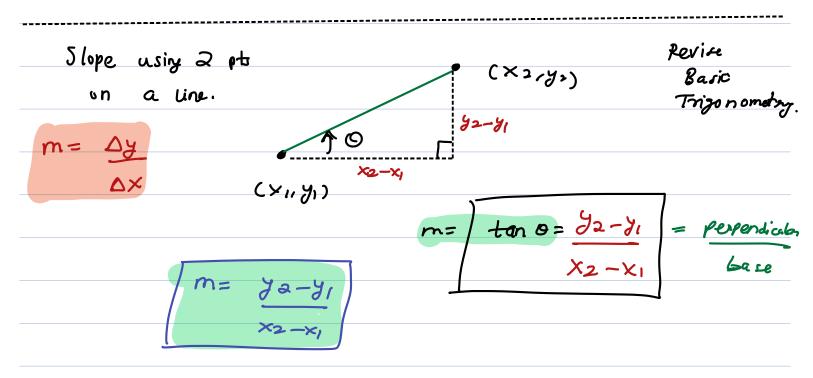
$$\Delta \times = 5$$

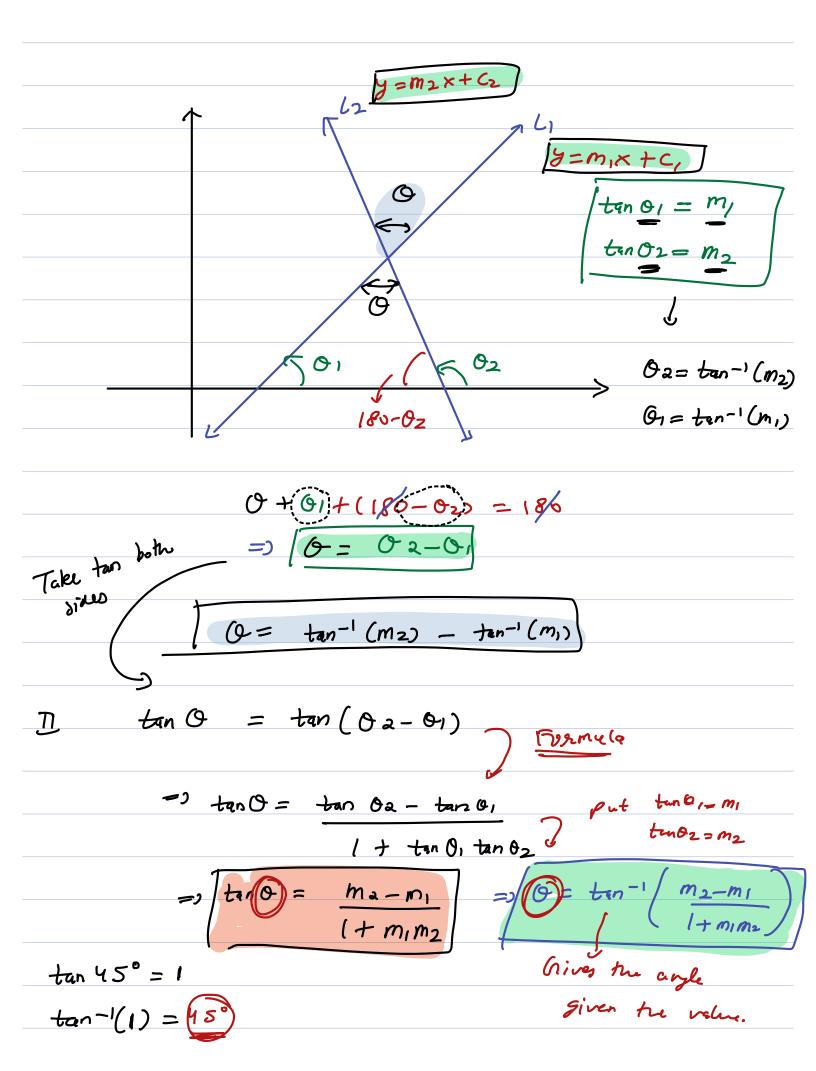
$$\Delta y = m \Delta x$$
 =  $2 m = \Delta y$   
 $\Delta y = 5(5) = 25$   $\Delta x$ 

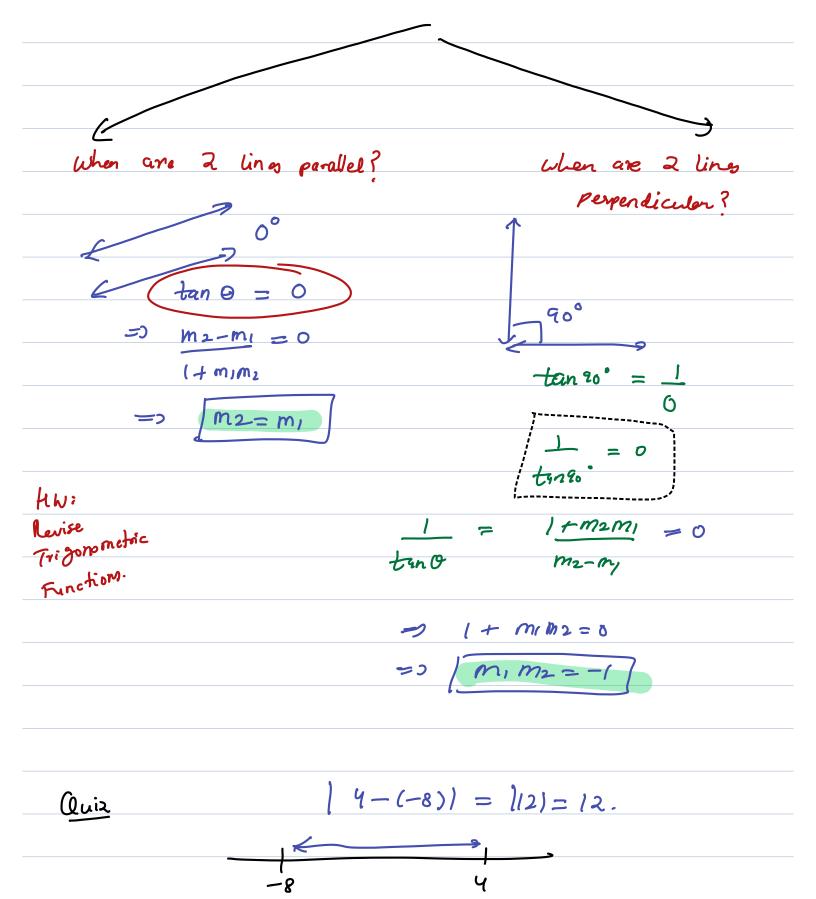
$$x=0 = 3$$
  $y=5(0)+3=3$   $y-intercept.$ 

## (0,4), (0,0), (3,0)

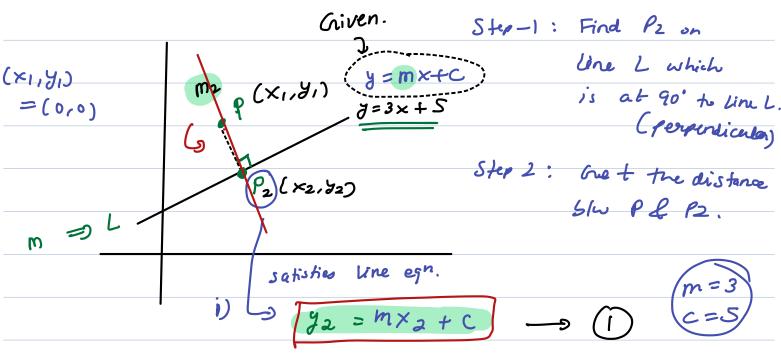








## Distance of a point from a line



ii) 
$$m_2 = y_2 - y_1$$
 as slope of  $L_{\tau}$  line  $x_2 - x_1$ 

$$(ii) \quad m. \, m_a = -1 \qquad \Rightarrow \qquad m \left( \frac{y_a - y_1}{x_2 - x_1} \right) = -1$$

(i) 
$$(32 = 3x + 5)$$
 =)  $my_3 - my_1 = x_1 - x_2$   
(2)  $(32 = -x_2 + 0)$  =)  $my_2 = x_1 - x_2 + my_1$   
 $(x_1, y_1)$  =)  $y_2 = (x_1 - x_2) + my_1$   
 $= (0, 0)$ 

2 egh, 2 variables. 
$$y = (x_1-x_2) + y_1$$
 2

(5,1) from line 
$$y = 3x + 1$$
.

3.  $m_2 = -1$ 

4.  $m_2 = -1$ 

5.  $m_2 = -1$ 

6.  $m_2 = -1$ 

7.  $m_2 = -1$ 

9.  $m_2 = -1$ 

9.  $m_2 = -1$ 

1.  $m_2 = -1$ 

2.  $m_2 = -1$ 

3.  $m_2 = -1$ 

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4.  $m_2 = -1$ 

5.  $m_2 = -1$ 

6.  $m_2 = -1$ 

7.  $m_2 = -1$ 

9.  $m_2 = -1$ 

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5.  $m_2 = -1$ 

7.  $m_2 = -1$ 

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2.  $m_2 = -1$ 

3.  $m_2 = -1$ 

4.  $m_2 = -1$ 

5.  $m_2 = -1$ 

7.  $m_2 = -1$ 

8.  $m_2 = -1$ 

9.  $m_2 = -1$ 

1.  $m_2 = -1$ 

1.  $m_2 = -1$ 

1.  $m_2 = -1$ 

2.

$$(511)$$
 from  $(\frac{1}{2}, \frac{5}{2})$ 

$$\left(\frac{5-\frac{1}{2}}{2}\right)^2 + \left(\frac{5}{5}-1\right)^2$$

$$= \sqrt{\left(\frac{9}{2}\right)^2 + \left(\frac{3}{2}\right)^2}$$

$$= \frac{81}{9} + \frac{9}{9}$$

$$\frac{15}{\sqrt{lo}} = \sqrt{\frac{225}{10}} = \sqrt{\frac{45}{2}}$$

Shortut L: 
$$y = mx + c = y - mx - c = 0$$

$$\widehat{P} = (x_1, y_1)$$

$$d = \begin{bmatrix} y_1 - mx_1 - c \end{bmatrix}$$

$$1 + m^2$$

$$(5,1)$$
 from line  $y=3\times+1$ .

$$y_1 = 1$$
 $x_1 = 5$ 
 $d = 1 - 3(5) = 1 = 1 - 15 - 1 = 15$ 
 $c = 1$ 
 $1 + 3^2$ 
 $\sqrt{60}$