

-2-

$$AB = y + x = 1 \quad AC = ry - rx = 1r \quad BC = ry - rx = -1q - \frac{a}{b}$$

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معادله خط AC به کمک اینستار

$\downarrow$

$ax + by + cz =$

$-3x + 5y - 17z =$

$$a = -r, b = r$$

9

$$f = 120 - 4$$

$$\frac{1}{\sqrt{\mu}} = \sqrt{\mu} \cdot \frac{1}{\mu} = \frac{\sqrt{\mu}}{\mu}$$

$$d = \frac{r}{k} \sqrt{r} = \frac{r\sqrt{r}}{k}$$

باران حاتم

↓ -1

$$\frac{m-k}{F-(-r)} = \frac{m-k}{9} = -\frac{1}{F} \rightarrow m-k = -k$$

نسبت A و B

AB (مساحت)

$$|AB| = \sqrt{(F-(-r))^2 + (m-k)^2} = \sqrt{4^2 + (-3)^2} = \sqrt{16+9}$$

$$\sqrt{25} = 5$$

$$\text{مساحت} = 3\sqrt{5}$$

$$S = (3\sqrt{5})^2 = 45$$

-2

$$D = D-C = (-1-x, y+3-y) = (-1-2x, 3)$$

$$(-1-2x, 3) = (-4, 3) \rightarrow -1-2x = -4 \rightarrow x = \frac{3}{2}$$

BC و AB (مساحت) →

$$(F, -3) \times (x-3, y-1) = 0$$

$$x = \frac{3}{2} \quad C\left(\frac{3}{2}, -1\right) \Rightarrow y = -1$$

$$\downarrow |AB| = 5$$

$$|BC| = \sqrt{(-1/2)^2 + (-2)^2} = \frac{1}{2} \cdot 5 = \frac{5}{2}$$

$$r \left(5 + \frac{5}{2} \right) = r \times \frac{15}{2} = 15$$

$$y = -\frac{rm}{m^2-1}x + \frac{r}{m^2-1} \rightarrow \frac{rm}{m^2-1}$$

$$\tan 45^\circ \rightarrow \sqrt{3}$$

$$\frac{-rm}{m^2-1} = \sqrt{3} \rightarrow \sqrt{3}m^2 + rm - \sqrt{3} = 0$$

$$\Delta = 4 + 12 = 16 \quad m = \frac{-r \pm 4}{2\sqrt{3}}$$

$$m_1 = \frac{1}{\sqrt{3}} \quad m_2 = -\sqrt{3}$$

$$m_1 - m_2 = \frac{1}{\sqrt{3}} - (-\sqrt{3})$$

$$\frac{1}{\sqrt{3}} + \sqrt{3} = \frac{1+3}{\sqrt{3}} = \frac{4}{\sqrt{3}}$$