

خط L در نقطه $(-3, -4)$ بر دایره ای به مرکز مبدأ مختصات مماس است اگر خط مماس در برابری دوم بر این دایره مماس باشد حاصل ضرب طول و عرض مختصات ۲ خط مماس $\sqrt{3^2 + 4^2} = 5$

$$(0, 0) \quad (-3, -4)$$

$$\frac{-4 - 0}{-3 - 0} = \frac{4}{3} \Rightarrow \frac{4}{3}$$

$$V = \frac{4}{3} \lambda$$

$$\frac{C}{\sqrt{1 + \frac{16}{9}}} = \frac{C}{\frac{5}{3}} = \frac{3C}{5} = 5 \Rightarrow C = \frac{25}{3}$$

$$V = \frac{4}{3} \lambda + \frac{25}{3}$$

$$V + C = \frac{-3}{5}(\lambda + 3)$$

$$V = -\frac{3}{5} \lambda - \frac{25}{5}$$

$$\frac{4}{3} \lambda + \frac{25}{3} = -\frac{3}{5} \lambda - \frac{25}{5}$$

$$\times 15 \quad 20\lambda = -175$$

$$\lambda = -\frac{175}{20}$$

$$V = -1 \Rightarrow \frac{V}{1}$$

$$\frac{1}{4} X \left| \begin{array}{cc|c} 3, V & 0, 9 & 1 \\ C & 0 & 1 \\ 1 & 0 & 1 \end{array} \right| \quad 3, V(0, -0) - 0, 9(4 - 1) + (0 - 0)$$

$$-\frac{2,7}{4} \Rightarrow \frac{2,7}{4} \Rightarrow 1, \frac{25}{4}$$

ادامه

$$A(-2, k) \quad a = \frac{1}{2}$$

$$B(4, m)$$

$$\frac{m-k}{4-(-2)} = -\frac{1}{2} \Rightarrow -\frac{1}{2} = \frac{1}{2}(m-k)$$

$$A(-1, 4) \quad C(3, 1)$$

$$B(2, 1) \quad D(-1-k, y+3)$$

$$AB \Rightarrow \sqrt{4^2 + 3^2} = 5$$

$$\frac{4-1}{-1-2} = -\frac{3}{3} \Rightarrow \frac{4}{3} \times \frac{3}{4} - 2 = -1 \Rightarrow \sqrt{\frac{9}{4} + (\frac{1}{4})^2} = \frac{5}{4}$$

$$2ma + (m^2 - 1)y = 2$$

$$(m^2 - 1)y = 2 - 2ma = \sqrt{3}$$

$$\frac{-2m}{m^2 - 1} = \frac{\sqrt{3}}{m^2 - 1} \Rightarrow \sqrt{3}m^2 - 2m - \sqrt{3} > 0 \Rightarrow$$

$$f - f(\sqrt{3} - \sqrt{3}) = 1 \Rightarrow \frac{+2 \pm f}{2\sqrt{3}} \Rightarrow \frac{4}{2\sqrt{3}} = \frac{2}{\sqrt{3}} \Rightarrow \sqrt{3} \Rightarrow \frac{4\sqrt{3}}{3}$$

$$A(1, 4)$$

$$B(2, 3) \quad C(4, 1)$$

$$\Rightarrow \frac{1-2}{2-1} = 2 \Rightarrow (2\sqrt{3})a + b = 1$$

$$\frac{1-2+3}{1-2+3} = \frac{10}{\sqrt{5}} \times \frac{\sqrt{5}}{\sqrt{5}} = \frac{10\sqrt{5}}{5}$$

$$AB = 2, AC = 2, BC = 2$$

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$$(0, -4)$$

$$(-\frac{3}{4}, 0) \Rightarrow \frac{-4-0}{0+\frac{3}{4}} = -1$$

$$-1 \times 1 - 4 = 2 \Rightarrow -9 \times 2 = -18 \Rightarrow \frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$$

$$V - a \times 1 = 1$$

$$aV - 1 = a - 1$$

$$\frac{1}{2} + \frac{1}{2} = 1$$

$$A(4, 0)$$

$$B(2, 1) \quad C(1, 1)$$

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$$V = a \times 1 + 1$$

$$V = \frac{1}{a} + a - 1$$

$$1 - \frac{1}{a} = 1 \Rightarrow \frac{1}{a} = 0$$

$$\frac{1}{2} + \frac{1}{2} = 1$$

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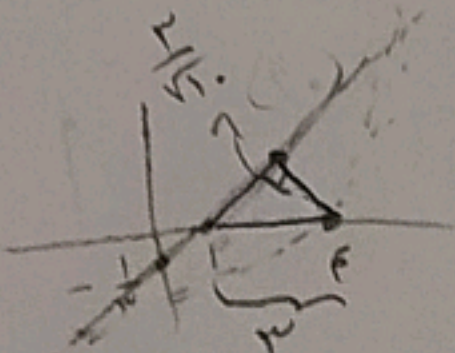
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المستقيم

$$\frac{b-a}{-\frac{1}{2} \times \frac{1}{2}} = 2\sqrt{3}$$

$$\left(\sqrt{\left(\frac{1}{2}\right)^2 + \left(\frac{\sqrt{3}}{2}\right)^2} \right)^2 \Rightarrow \frac{1+1}{2} = 1 \Rightarrow \frac{a^2}{2} = 2 \Rightarrow 4a^2 = 4 \Rightarrow a = 1$$