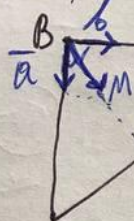


(b_1, b_2)



$$\overrightarrow{BA} = (a_1 - b_1; a_2 - b_2)$$

$$\overrightarrow{BC} = (c_1 - b_1; c_2 - b_2)$$

$$\overrightarrow{a} = \frac{\overrightarrow{BA}}{|\overrightarrow{BA}|} = \left(\frac{a_1 - b_1}{\sqrt{(a_1 - b_1)^2 + (a_2 - b_2)^2}}; \frac{a_2 - b_2}{\sqrt{(a_1 - b_1)^2 + (a_2 - b_2)^2}} \right)$$

$$\overrightarrow{b} = \frac{\overrightarrow{BC}}{|\overrightarrow{BC}|} = \left(\frac{c_1 - b_1}{\sqrt{(c_1 - b_1)^2 + (c_2 - b_2)^2}}; \frac{c_2 - b_2}{\sqrt{(c_1 - b_1)^2 + (c_2 - b_2)^2}} \right)$$

$$\overrightarrow{BM} = \overrightarrow{a} + \overrightarrow{b} = \left(\frac{a_1 - b_1}{\sqrt{(a_1 - b_1)^2 + (a_2 - b_2)^2}} + \frac{c_1 - b_1}{\sqrt{(c_1 - b_1)^2 + (c_2 - b_2)^2}}; \frac{a_2 - b_2}{\sqrt{(a_1 - b_1)^2 + (a_2 - b_2)^2}} + \frac{c_2 - b_2}{\sqrt{(c_1 - b_1)^2 + (c_2 - b_2)^2}} \right)$$

$$\overrightarrow{BA} = (a_1 - b_1; a_2 - b_2) \Rightarrow \text{нормаль к } \overrightarrow{BA} \Rightarrow \overrightarrow{n} \perp \overrightarrow{BA} \Rightarrow$$

$$\Rightarrow \overrightarrow{n} \parallel \overrightarrow{CM}$$

$$\boxed{\overrightarrow{n} = (a_2 - b_2; b_1 - a_1)}$$