

$$b(1-a)$$

$$m = \frac{y_b - y_a}{x_b - x_a} \Rightarrow \alpha = \frac{b-2}{3-a}$$

$$b = 3 - 2\alpha \quad (1)$$

$$2(3-a) = b-2$$

$$6 - 2a = b - 2$$

$$8 - 2a = b$$

$$|AB| = \sqrt{(x_A - x_B)^2 + (y_A - y_B)^2}$$

$$\sqrt{125} = \sqrt{(a-3)^2 + (2-b)^2}$$

$$125 = (a-3)^2 + (2-b)^2 \quad - (2)$$

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Mathematics M J 14 Paper

Zhe Xu



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