

نام و نام خانوادگی شماره کلاس B

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

$$\frac{\sqrt{c}(a+b)}{a-b} = -\frac{\sqrt{c}}{c}$$

$$\sqrt{c}a + \sqrt{c}b = b - a$$

$$\sqrt{c}a = -\sqrt{c}b \Rightarrow \frac{a}{b} = -\frac{1}{\sqrt{c}} \Rightarrow \frac{b}{a} = -\frac{\sqrt{c}}{1} = -\sqrt{c}$$

$$\frac{b}{a} = -\frac{\sqrt{c}}{1} = -\sqrt{c}$$



$\angle POP' = 45^\circ$

$OP = OP' = 1$

$PP' = \sqrt{1^2 + 1^2} = \sqrt{2}$

$OP' = 1 + \sqrt{2}$

$\frac{r}{r} = \frac{r}{r} = 1$

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$\alpha = \left| \frac{11m}{r} - \alpha \right| \Rightarrow \rho_0 = \frac{11m}{r} \Rightarrow \rho_0 = \frac{11m}{r}$

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$\sin \frac{\pi}{4} = \frac{1}{\sqrt{2}}$

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$$\frac{\cos 120 + k \sin 120}{-\cos 120 - k \sin 120} \star \frac{+k \sin 120}{-k \sin 120} =$$

$$\frac{1 - \frac{1}{2}k}{-1 - \frac{1}{2}k} = \frac{-k - \frac{1}{2}}{\frac{1}{2}k} \Rightarrow 1 - \frac{1}{2}k = -1 - \frac{1}{2}k$$

$$\frac{1}{2}k = \frac{1}{2} \Rightarrow k = 1$$

$$r + r \cos \alpha = 1 - \cos \alpha \Rightarrow r \cos \alpha = -1 - \cos \alpha \Rightarrow \cos \alpha = -\frac{1}{2} \Rightarrow \sin \alpha = \sqrt{1 - \frac{1}{4}} = \frac{\sqrt{3}}{2}$$

$$\cos \alpha = -\frac{1}{2}$$

$$\frac{\cos 2\alpha + \cos 2\alpha}{\sin 2\alpha + \sin 2\alpha}$$

$$\frac{\cos 2\alpha}{\sin 2\alpha} = \frac{\cos 2\alpha}{\sin 2\alpha} = \frac{1}{\tan 2\alpha} = \frac{1}{2 \tan \alpha} = \frac{1}{2 \cdot \frac{\sqrt{3}}{2}} = \frac{1}{\sqrt{3}}$$

$$\frac{1}{\omega} = \frac{1}{R} \Rightarrow \omega = \frac{1}{R} \Rightarrow \frac{1}{\omega} = R \Rightarrow \frac{1}{\omega} = \frac{1}{R} \Rightarrow R = \frac{1}{\omega}$$

$$\frac{R_A}{R_B} = \frac{q_A}{q_B} = \frac{1}{2}$$

$$\frac{S_A}{S_B} = \left(\frac{R_A}{R_B}\right)^2 = \left(\frac{1}{2}\right)^2 = \frac{1}{4}$$

$$S_{ABC} = \frac{AB \cdot AC \cdot \sin C}{2} = \frac{1 \cdot 1 \cdot \sin 60^\circ}{2} = \frac{\sqrt{3}}{4}$$

$$\frac{S_{ABC}}{S_{DEF}} = \frac{\sqrt{3}/4}{\sqrt{3}/4} = 1$$

$$\frac{AB}{BD} = \frac{AC}{CD} \Rightarrow \frac{1}{2} = \frac{1}{2} \Rightarrow \frac{AB}{BD} = \frac{AC}{CD}$$

$$\sqrt{BC^2 + AD^2} = \sqrt{1^2 + 1^2} = \sqrt{2}$$

$$\sin C = \frac{1}{2} \Rightarrow \cos C = \frac{\sqrt{3}}{2} \Rightarrow \frac{1}{2} \cdot \frac{\sqrt{3}}{2} = \frac{\sqrt{3}}{4}$$

$$\frac{1}{\sin \alpha} = \frac{1}{\sin \beta} \Rightarrow \sin \alpha = \sin \beta$$

$$\sin \alpha = \frac{1}{2} \Rightarrow \alpha = 30^\circ$$

$$\sin \theta = \frac{1}{2} \Rightarrow \theta = 30^\circ$$

$$AN = AM \rightarrow AM^2 = (AB)^2 + (BM)^2 = r^2 + r^2 = 1r^2 \rightarrow AM = \sqrt{1}r$$

$$S_{AON} = S_{ABM} = \frac{r \times r}{2} = r^2, \quad S_{MCN} = \frac{1 \times 1}{2}$$

$$\cancel{S_{AON}} + \cancel{S_{ABM}} + \cancel{S_{MCN}} + S_{AMN} = \cancel{S_{ABCD}} \rightarrow$$

$$\frac{1}{2} \times \sqrt{1}r \times \sqrt{1}r \times \sin \theta = \frac{\omega}{2}$$

$$\sin \theta = \frac{\omega}{1r}$$

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C.A.

