

$$S = \sqrt{a^2 + b^2} \sin(\alpha) \Rightarrow \sqrt{a^2 + b^2} \frac{1}{\sqrt{2}} \Rightarrow \sqrt{a^2 + b^2} = \sqrt{2} \Rightarrow a^2 + b^2 = 2 \Rightarrow a = \sqrt{2}$$

$$\Rightarrow P = \sqrt{(a+b)^2} = \sqrt{2} \Rightarrow \sqrt{2} = \sqrt{2} \Rightarrow \sqrt{2} = \sqrt{2}$$

$$\frac{1}{|\cos \alpha|} - \frac{\sin \alpha}{\cos \alpha} = \frac{1 + \sin \alpha}{|\cos \alpha|} \Rightarrow$$

پس این $\cos \alpha = 0$ باشد تا جواب در

$$\frac{|\sin \alpha|}{\cos \alpha} = -\frac{1}{\cot \alpha} \Rightarrow$$

در واقع این سؤال ۲ و ۳ است (این سؤال برای سؤال ۳ است)

پس در این سؤال ۳ قرار داد

در واقع این سؤال ۲ و ۳ است

$$\triangle ABC \Rightarrow a \sin A = b \sin B \Rightarrow 3 \sin A - 2 \sin A = 1 \Rightarrow$$

$$\triangle ADE \Rightarrow e \sin A = d \sin A \Rightarrow$$

$$\Rightarrow \sin A = \frac{1}{2} \Rightarrow \frac{1}{2} = \frac{1}{2} \Rightarrow \frac{1}{2} = \frac{1}{2} \Rightarrow \frac{1}{2} = \frac{1}{2}$$

$$\tan\left(\frac{\pi}{4} - \alpha\right) = \cot \alpha$$

$$\Rightarrow \tan\left(\frac{\pi}{4} - \alpha\right) = \frac{1 - \tan \alpha}{1 + \tan \alpha} = \frac{1}{2}$$

$$\Rightarrow \tan(\alpha) = -\frac{1}{2} \Rightarrow \cot \alpha = -\frac{2}{1}$$

$$\frac{3 \cos\left(\frac{\pi}{4} - 22\right) - 2 \sin\left(\frac{\pi}{4} - 22\right)}{\sin\left(\frac{\pi}{4} + 22\right) - \cos\left(\frac{\pi}{4} + 22\right)} \Rightarrow \frac{-3 \sin(22) - 2 \sin(22)}{-\sin(22) - \sin(22)} = \frac{-5 \sin(22)}{-2 \sin(22)} = \frac{5}{2}$$

$$\sin \alpha = -\sqrt{1 - \frac{\epsilon}{\mu}} \Rightarrow -\frac{\sqrt{\mu}}{\mu} \quad \tan^2 \alpha = \frac{\sin^2 \alpha}{\cos^2 \alpha} \Rightarrow \frac{\frac{\mu}{\mu}}{\frac{\epsilon}{\mu}} = \frac{\mu}{\epsilon}$$

$$\Rightarrow \frac{\sin(\alpha + \frac{\pi}{2}) - \sin(\alpha - \pi)}{|\tan^2 - 1|} \Rightarrow \frac{\cos \alpha + \sin \alpha}{\frac{\mu}{\epsilon} - 1}$$

$$\Rightarrow \frac{\mu - \sqrt{\mu}}{\frac{\mu}{\epsilon}} \Rightarrow \frac{\epsilon}{\mu} (\mu - \sqrt{\mu})$$

$$\sin \alpha = \mu \cos \alpha \Rightarrow \sin^2 \alpha + \cos^2 \alpha = 1 \Rightarrow \epsilon \cos^2 \alpha + \cos^2 \alpha = 1$$

$$\Rightarrow \mu \cos^2 \alpha = 1 \Rightarrow \cos^2 \alpha = \frac{1}{\mu} \Rightarrow \cos \alpha = -\frac{1}{\sqrt{\mu}}$$

$$\tan \alpha = -\frac{\mu}{\mu} \Rightarrow \frac{-\mu}{\mu^2 - 1} = \sqrt{\mu} \Rightarrow \sqrt{\mu} \mu^2 - \sqrt{\mu} = -\mu \Rightarrow \sqrt{\mu} \mu^2 + \mu - \sqrt{\mu} = 0$$

$$\Rightarrow \frac{\sqrt{\mu}}{\mu} (\sqrt{\mu} \mu^2 + \mu - \sqrt{\mu}) \Rightarrow \sqrt{\mu} \mu + \mu - \sqrt{\mu} = 0 \Rightarrow \sqrt{\mu} \mu = -\mu \Rightarrow \mu = -\frac{\mu}{\sqrt{\mu}}$$

$$\Rightarrow \sqrt{\mu} \mu - 1 = 0 \Rightarrow \sqrt{\mu} \mu = 1 \Rightarrow \mu = \frac{1}{\sqrt{\mu}}$$

$$\Rightarrow |m_1 - m_2| = \frac{\epsilon}{\sqrt{\mu}}$$

$$-\frac{\pi}{\epsilon} < \alpha < \frac{\pi}{\epsilon} \Rightarrow -\frac{\pi}{\epsilon} < -\alpha < \frac{\pi}{\epsilon} \Rightarrow 0 < \frac{\pi}{\epsilon} - \alpha < \frac{\pi}{\epsilon}$$

$$\Rightarrow \tan\left(\frac{\pi}{\epsilon} - \alpha\right) > 0 \Rightarrow \frac{1 - m}{1 + m} > 0 \Rightarrow \frac{1 - \mu}{-0 + 0} > 0$$

$$\Rightarrow -\mu < m < 1$$

$$\tan(\mu \theta_0) \cos(\mu \theta_0) + \tan(\epsilon \theta_0) \sin(\epsilon \theta_0) \Rightarrow \tan(\mu \theta_0 - \theta_0) \cos(\mu \theta_0 + \theta_0)$$

$$+ \tan(\mu \theta_0 + \theta_0) \sin(\mu \theta_0 + \theta_0) \Rightarrow \tan(-\theta_0) (\cos(\mu \theta_0 + \theta_0) + \tan(\mu \theta_0 - \theta_0) \sin(\mu \theta_0 - \theta_0))$$

$$\Rightarrow (-\tan(\theta_0)) (\cos(\mu \theta_0) - \cos(\theta_0)) + (-\tan(\theta_0)) \sin \theta_0 \Rightarrow$$

$$(-\sqrt{\mu}) (-\frac{\sqrt{\mu}}{\mu}) + (-\sqrt{\mu}) (\frac{\sqrt{\mu}}{\mu}) \Rightarrow \frac{\mu}{\mu} - \frac{\mu}{\mu} = 0$$