

$$\sin 40^\circ = \frac{1}{\mu} = \frac{h}{PK} \Rightarrow h = K$$

$$S_{ABCD} = PK \times K = \Delta K \rightarrow K = \mu \sqrt{\mu}$$

$$P_{ABCD} = \mu(PK + PK) = 10K = \mu \sqrt{\mu}$$

$$S_{ABC} - S_{ADE} = \frac{1}{\mu} ((V \times \Delta \times \sin \hat{A}) - (V \times K \times \sin \hat{A})) = 1/\Delta$$

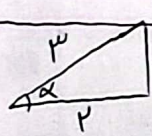
$$V \sin \hat{A} = \mu/\Delta \rightarrow \sin \hat{A} = \frac{1}{\mu} \rightarrow \hat{A} = 30^\circ \rightarrow \tan \hat{A} = \frac{\sqrt{\mu}}{\mu}$$

$$\frac{|\sin \alpha|}{\cos \alpha} = -\frac{\sin \alpha}{\cos \alpha} \rightarrow \sin \alpha < 0$$

$$\frac{1}{|\cos \alpha|} - \frac{\sin \alpha}{\cos \alpha} = \frac{1}{|\cos \alpha|} + \frac{\sin \alpha}{|\cos \alpha|} \rightarrow \frac{\sin \alpha}{|\cos \alpha|} = -\frac{\sin \alpha}{\cos \alpha} \rightarrow \cos \alpha < 0$$

$$\tan \alpha = \frac{1/\Delta - 0}{0 - \mu} = -\frac{\mu}{\Delta} \quad \tan\left(\frac{\pi}{\mu} - \alpha\right) = \cot \alpha = -\frac{\mu}{\Delta}$$

$$\frac{\mu \cos(\mu \nu_0 - \mu \nu) - \mu \sin(180 - \mu \nu)}{-\sin(180 + \mu \nu) - \cos(\mu \nu_0 + \mu \nu)} = \frac{-\mu \sin(\mu \nu) - \mu \sin(\mu \nu)}{-\sin(\mu \nu) - \sin(\mu \nu)} = \mu/\Delta$$



$$\begin{aligned} \cos \alpha &= \frac{\mu}{\sqrt{A}} \\ \sin \alpha &= \frac{\sqrt{A}}{\mu} \\ \tan \alpha &= \frac{\sqrt{A}}{\mu} \end{aligned} \quad \frac{\cos \alpha + \sin \alpha}{|\tan^2 \alpha - 1|} = \frac{\frac{\mu}{\sqrt{A}} - \frac{\sqrt{A}}{\mu}}{\left|\frac{\mu}{\sqrt{A}} - \frac{\sqrt{A}}{\mu}\right|} = \frac{\mu - \sqrt{A}}{\mu} = \frac{1 - \sqrt{A}}{\mu}$$

$$\sin \alpha = \mu \cos \alpha \rightarrow \sin^2 \alpha = \mu^2 \cos^2 \alpha \rightarrow 1 - \cos^2 \alpha = \mu^2 \cos^2 \alpha \rightarrow \cos^2 \alpha = \frac{1}{\mu^2} \rightarrow \cos \alpha = \frac{\sqrt{A}}{\mu}$$

$$y = \frac{\mu}{m^2 - 1} - \left(\frac{\mu m}{m^2 - 1}\right) x \quad \tan 40^\circ = \frac{-\mu m}{m^2 - 1} = \sqrt{\mu} \rightarrow \sqrt{\mu} m^2 - \sqrt{\mu} = -\mu m$$

$$\frac{\sqrt{A}}{|\alpha|} = \frac{\sqrt{\mu + \mu}}{|\sqrt{\mu}|} = \frac{\mu \sqrt{\mu}}{\mu}$$

$$-\frac{\pi}{\mu} < \alpha < \frac{\pi}{\mu} \xrightarrow{\times (-)} -\frac{\pi}{\mu} < -\alpha < \frac{\pi}{\mu} \xrightarrow{+ \left(\frac{\pi}{\mu}\right)} 0 < \frac{\pi}{\mu} - \alpha < \frac{\pi}{\mu} \xrightarrow{\tan} 0 < \frac{1-m}{\mu+m} < \frac{\pi}{\mu} \quad m \in (-1, 1)$$

$$\begin{aligned} &\tan\left(\mu \frac{\pi}{\mu} + \frac{\pi}{\mu}\right) \cos\left(\pi + \frac{\pi}{\mu}\right) + \tan\left(\frac{\pi}{\mu} + \frac{\pi}{\mu}\right) \sin\left(\frac{\pi}{\mu} + \frac{\pi}{\mu}\right) \Rightarrow \\ &(-\cot\left(\frac{\pi}{\mu}\right))(-\cos\left(\frac{\pi}{\mu}\right)) + (-\cot\left(\frac{\pi}{\mu}\right))\left(\cos\left(\frac{\pi}{\mu}\right)\right) = \frac{\mu}{\mu} - \frac{\mu}{\mu} = 0 \end{aligned}$$