

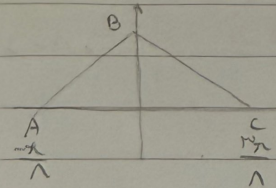
$$y, \tan(-P_2 + \frac{\pi}{2}) \rightarrow \tan(\frac{\pi}{2}) \rightarrow 1 \rightarrow B = (0, 1) \quad .1$$

$$A, \tan(-P_2 + \frac{\pi}{2}) \rightarrow \tan(\frac{\pi}{2}) \rightarrow 1 \rightarrow \text{Circles}$$

$$\tan(-P_2 + \frac{\pi}{2}) = \tan(\frac{\pi}{2}) = P_2 + \frac{\pi}{2} - \frac{\pi}{2} \rightarrow \alpha = -\frac{\pi}{2} \quad (A)$$

$$\tan(-P_2 + \frac{\pi}{2}) = \tan(-\frac{\pi}{2}) = -P_2 - \frac{\pi}{2} - \frac{\pi}{2} \rightarrow \alpha = \frac{3\pi}{2} \quad (C)$$

$$C.A. = \frac{\pi}{2}$$



$$1 \times (\frac{3\pi}{2} - (-\frac{\pi}{2})) = \frac{\pi}{2}$$

$$2^P - (\sin \alpha) \alpha - \frac{1}{P} \cos^2 \alpha = 0 \quad \frac{P}{a} \sin \alpha = \frac{1}{P} (1 - \sin^2 \alpha) \quad .2$$

$$x^4, 17 - P^2 \sin \alpha - 9(1 - \sin^2 \alpha) - 4 \sin^2 \alpha - P^2 \sin \alpha + V = 0$$

$$\sin \alpha = \frac{P^2 \pm \sqrt{16P^4 - 4P^2}}{17} \rightarrow \frac{P^2}{17} \pm \frac{2P}{17} \rightarrow \frac{4}{17} \pm \frac{1}{P} \rightarrow \cos \alpha = \sqrt{1 - \sin^2 \alpha} = \sqrt{1 - \frac{1}{9} \pm \frac{2\sqrt{17}}{17}}$$

$$\tan \alpha = \frac{1}{\cos \alpha} = \frac{P}{17}$$

$$\log(\sin \alpha) = \log(-\cos \alpha) + \log 17 \rightarrow \log \frac{\sin \alpha}{-\cos \alpha} = \log 17 \rightarrow \sin \alpha = -P \cos \alpha \quad .3$$

$$\sin^2 \alpha + \cos^2 \alpha = 1 \rightarrow 9 \cos^2 \alpha + \cos^2 \alpha = 1 \rightarrow \cos^2 \alpha = \frac{1}{10} \rightarrow \cos \alpha = \frac{\sqrt{10}}{10} \quad \sin \alpha = \frac{3\sqrt{10}}{10}$$

$$\sin \alpha - \cos \alpha = \frac{3\sqrt{10}}{10} - \frac{\sqrt{10}}{10} = \frac{2\sqrt{10}}{10} = \frac{\sqrt{10}}{5}$$

