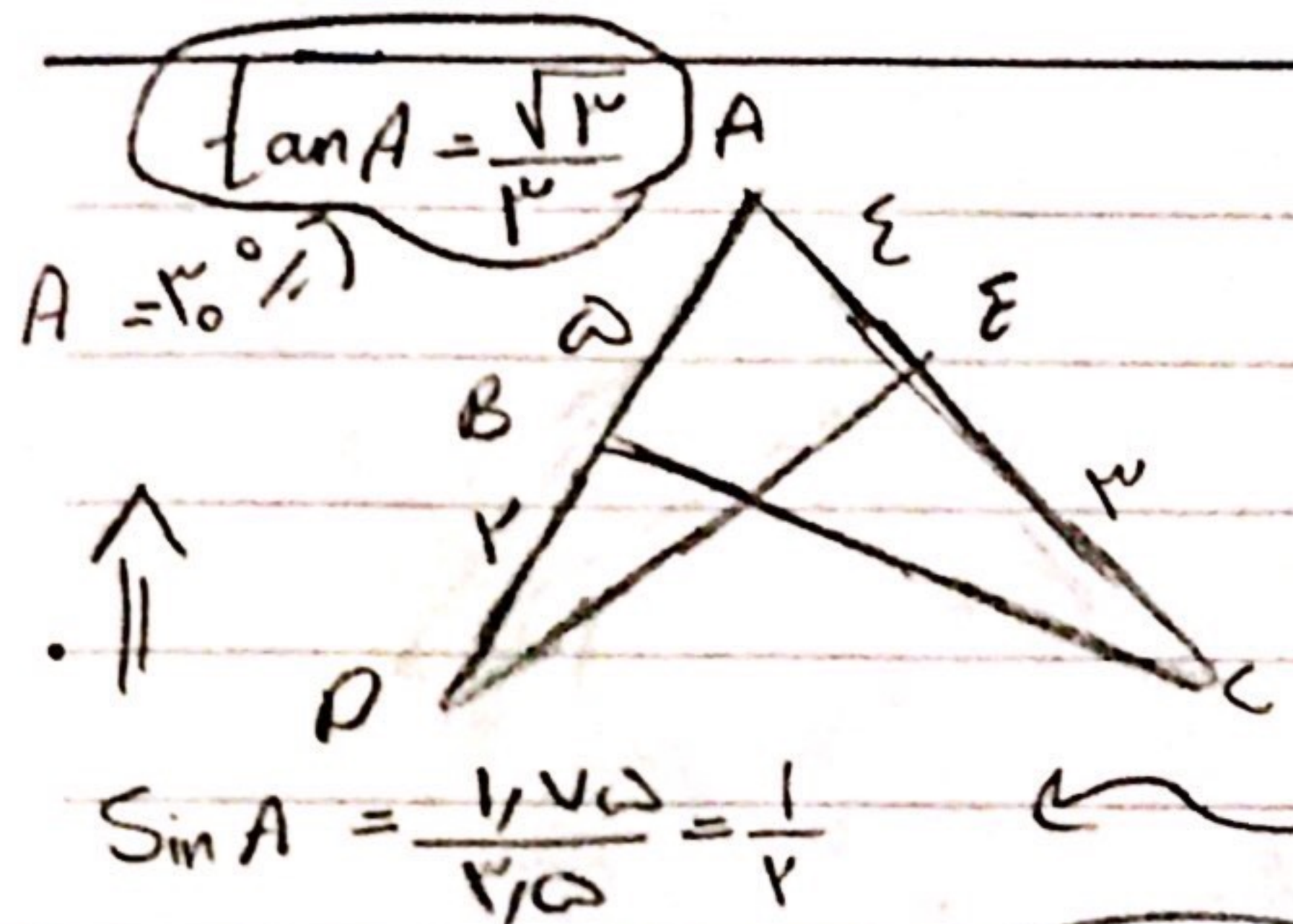


$S = \omega \epsilon$

$S = 12m \times 12m \times \sin 120^\circ = 12 \times 12 \times \frac{\sqrt{3}}{2} = 72\sqrt{3}$

$P = \epsilon(12\sqrt{2}) + \epsilon(12\sqrt{2}) = (120\sqrt{2}) \Rightarrow n^2 = 18 \Rightarrow n = 3\sqrt{2}$



$S_{ABC} - S_{ADE} = 11\omega$   $\tan A = ?$

$S_{ABC} = v \times w \times \sin A \times \frac{1}{2} = 11\omega \sin A$

$S_{ADE} = v \times \epsilon \times \sin A \times \frac{1}{2} = 1\epsilon \sin A$

$\Rightarrow 11\omega \sin A - 1\epsilon \sin A = 12\omega \sin A = 11\omega$

$\sin A = \frac{1/11\omega}{1/12\omega} = \frac{1}{11}$

1 12 12 120

$\frac{1}{\sqrt{\epsilon^2 + \omega^2}} - \tan \alpha = \frac{1 + \sin \alpha}{1 - \sin \alpha}$

$\frac{|\sin \alpha|}{\delta \sin \alpha} = -\frac{1}{\delta \tan \alpha}$

1 12 12 120

$-\tan \alpha < 0 \Rightarrow \tan \alpha > 0$

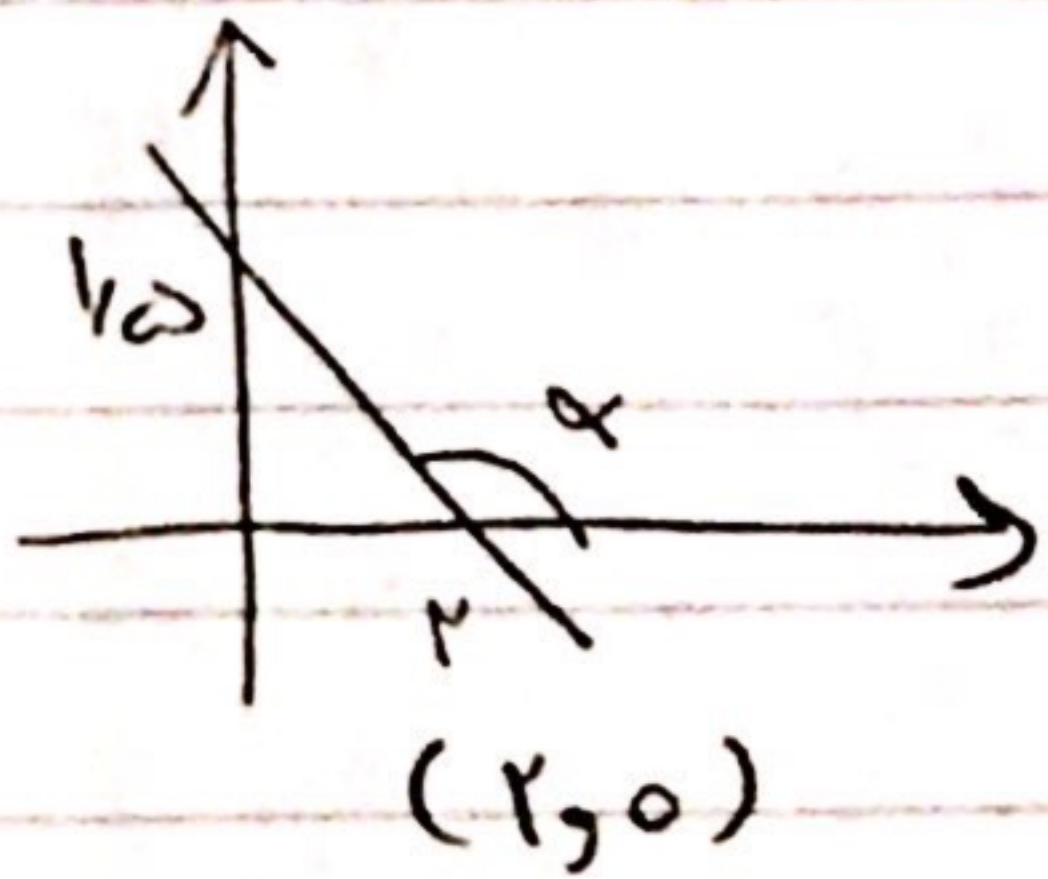
$-\frac{1}{\delta \tan \alpha} = -\tan \alpha = -\frac{\sin \alpha}{\delta \sin \alpha}$

1 12 12 120

$\Rightarrow \frac{1}{\delta \sin \alpha} - \tan \alpha = \frac{1}{\delta \sin \alpha} + \frac{\sin \alpha}{\delta \sin \alpha}$

$|\sin \alpha| = \delta \sin \alpha \times \frac{-\sin \alpha}{\delta \sin \alpha} \Rightarrow \sin \alpha < 0$

$\tan(\frac{\pi}{2} - \alpha) = \cot \alpha = \frac{1}{\tan \alpha} = \frac{-\epsilon}{12}$



$y = ax + b \Rightarrow 12a + 12 = 0$

$b = 12$

$12a = -12 \Rightarrow a = -1$

$\Rightarrow y = -\frac{1}{12}x + 12 \Rightarrow \tan \alpha = -\frac{1}{12}$

$\frac{12 \sin(120^\circ) - 1 \sin(120^\circ)}{\sin(120^\circ) - \sin(120^\circ)} = \frac{12 \sin(\frac{\pi}{2} - 120^\circ) - 1 \sin(\pi - 120^\circ)}{\sin(\pi + 120^\circ) - \sin(\frac{\pi}{2} + 120^\circ)}$

$= \frac{-12 \sin(120^\circ) - 1 \sin(120^\circ)}{-\sin(120^\circ) - \sin(120^\circ)} = \frac{-13 \sin(120^\circ)}{-2 \sin(120^\circ)} = \frac{13}{2} = 6.5$

$\delta \sin \alpha = \frac{r}{r^2}$        $\delta \sin^2 \alpha + \sin^2 \alpha = 1 \Rightarrow \sin^2 \alpha = \frac{\omega}{9}$        $\sin \alpha = \frac{\sqrt{\omega}}{3}$        $\tan \alpha = \frac{\sqrt{\omega}}{r}$        $\frac{1 - \sqrt{\omega}}{r}$

$$\frac{\sin(\frac{\pi}{r} + \alpha) - \sin(\alpha - \pi)}{|\tan^2 \alpha - 1|} = \frac{\delta \sin \alpha - \sin \alpha}{|\tan^2 \alpha - 1|} = \frac{\frac{r}{r^2} - \frac{\sqrt{\omega}}{r}}{\frac{\omega}{2} - \frac{2}{2}} = \frac{r - \sqrt{\omega}}{r}$$

$\sin \alpha = r \delta \sin \alpha$

پس معنی

$\delta \sin \alpha = ?$

$\tan \alpha = \frac{r \delta \sin \alpha}{\delta \sin \alpha} = r$        $\tan^2 \alpha + 1 = \frac{1}{\delta \sin^2 \alpha} \Rightarrow \delta \sin^2 \alpha = \frac{1}{\omega}$

$\Rightarrow \delta \sin \alpha = -\frac{1}{\sqrt{\omega}} = \frac{-\sqrt{\omega}}{\omega}$

$\alpha = 40^\circ \Rightarrow \tan 40^\circ = \sqrt{r}$

$r m^2 + (m^2 - 1) y = r$

$|m_1 - m_2| = \left| \frac{-r}{\sqrt{r}} - \frac{1}{\sqrt{r}} \right| = \frac{2}{\sqrt{r}}$

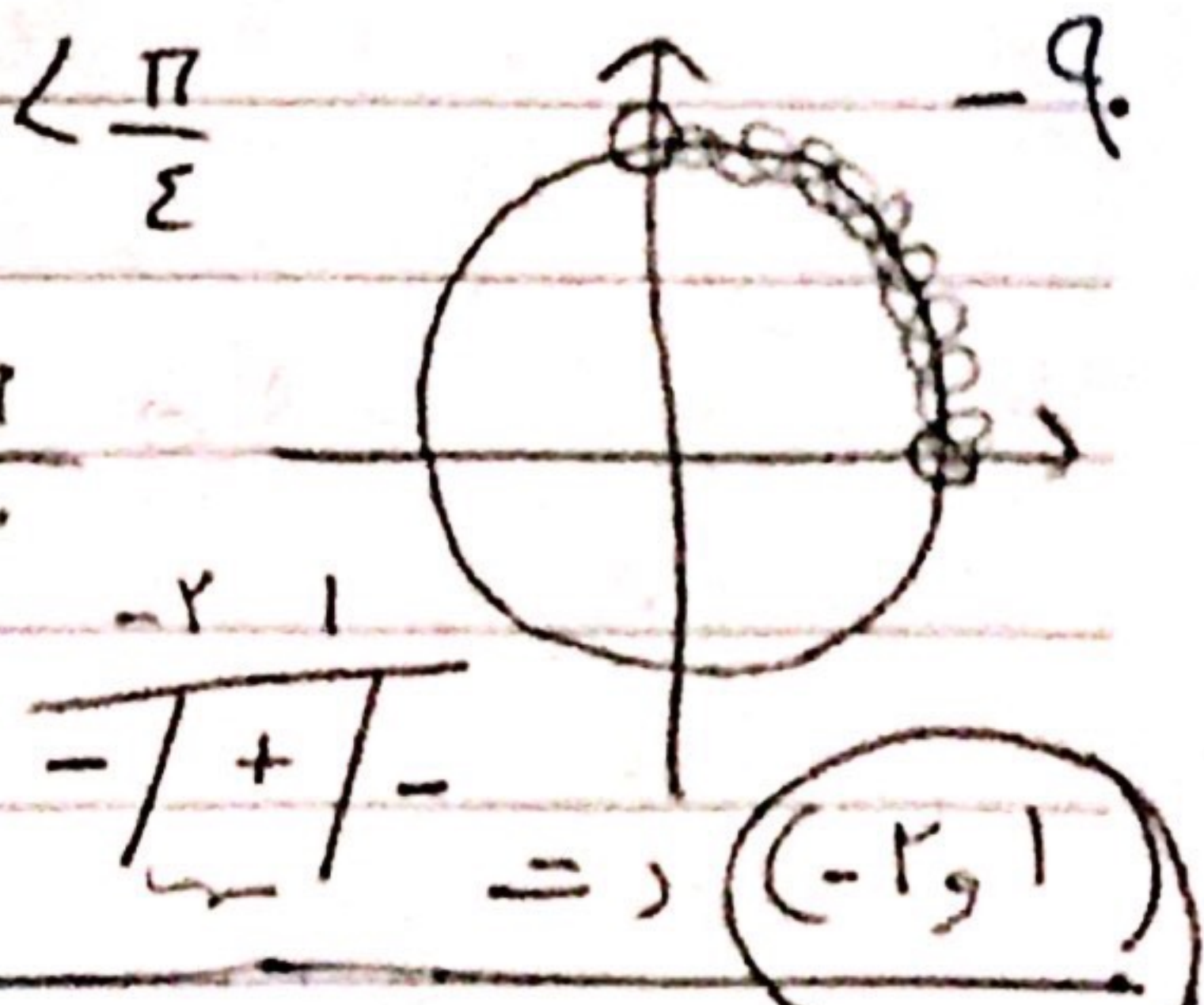
$y = \frac{-r m^2 + r}{m^2 - 1} \Rightarrow \frac{-r m}{m^2 - 1} = \sqrt{r}$

$\Rightarrow \sqrt{r} m^2 - \sqrt{r} = -r m \Rightarrow m^2 + r m - r = 0 \Rightarrow (m + r)(m - 1) = 0 \Rightarrow m_1 = \frac{-r}{\sqrt{r}}, m_2 = \frac{1}{\sqrt{r}}$

$\tan(\frac{\pi}{2} - n) = \frac{1-m}{r+m}$        $-\frac{\pi}{2} < n < \frac{\pi}{2}$

$\frac{\pi}{2} > -n > -\frac{\pi}{2} \Rightarrow 0 < \frac{\pi}{2} - n < \frac{\pi}{r}$

$\Rightarrow 0 < \frac{1-m}{r+m} < +\infty \Rightarrow 0 < \frac{1-m}{r+m}$



$\tan(\pi - \frac{\pi}{r}) \delta \sin(\pi - \frac{\pi}{r}) + \tan(\frac{\pi}{r}) \sin(\frac{\pi}{r})$   
 $\tan(\pi - \frac{\pi}{r}) \delta \sin(\pi - \frac{\pi}{r}) + \tan(\frac{\pi}{r}) \sin(\frac{\pi}{r})$   
 $-\tan \frac{\pi}{r} = -\sqrt{r}$        $-\delta \sin \frac{\pi}{r} = -\frac{\sqrt{r}}{r}$        $-\delta \sin \frac{\pi}{r} = -\sqrt{r}$

$-\sqrt{r} \times -\frac{\sqrt{r}}{r} + -\sqrt{r} \times \frac{\sqrt{r}}{r} = \frac{r}{r} - \frac{r}{r} = 0$

$\sin(\frac{\pi}{r}) = \sin(\pi - \frac{\pi}{r})$   
 $= \sin \frac{\pi}{r} = \frac{\sqrt{r}}{r}$