

①  $h = \frac{1}{r} a$        $S = a \sin \theta$

$a = \frac{r}{\sin \theta} b$        $\frac{a}{b} = \frac{r}{\sin \theta}$

$h = \frac{1}{r} \times \frac{r}{\sin \theta} b = \frac{1}{\sin \theta} b$

$d \sin \theta = \frac{1}{r} b^r \rightarrow d \sin \theta = \frac{b^r}{r}$

$b^r = 14^r$        $14^r \times \frac{1}{r}$

$(4\sqrt{r} + 2\sqrt{r}) = 10\sqrt{r} \rightarrow 10\sqrt{r} \times \frac{1}{r} = 10\sqrt{r}$

②

$a = \frac{r}{\sin \theta} \times 9\sqrt{r}$   
 $\Rightarrow \boxed{a = 4\sqrt{r}}$   
 $b = 9\sqrt{r}$

③  $\frac{1}{|\cos \alpha|} = \frac{\cancel{\sin \alpha}}{\cancel{\sin \alpha} |\cos \alpha|} + \frac{\sin \alpha}{|\cos \alpha|} \rightarrow \frac{1}{|\cos \alpha|} = \frac{\sin \alpha}{\cos \alpha} + \frac{\sin \alpha}{|\cos \alpha|}$

$|\cos \alpha| = \cos \alpha$

ان کا جواب

$\frac{|\sin \alpha|}{\cos \alpha} = \tan \alpha$

پہلے سے

$\frac{|\sin \alpha|}{\cos \alpha} = \frac{\sin \alpha}{\cos \alpha}$  (Baharan)

④  $\tan(\pi - \alpha) = \frac{y}{x} \rightarrow \tan \alpha = -\frac{y}{x}$

$\tan(\frac{\pi}{r} - \alpha) = \cot \alpha$

$\tan(\frac{\pi}{r} - \alpha) = \cot \alpha = \frac{1}{\tan \alpha} = \frac{1}{-\frac{y}{x}} = -\frac{x}{y}$

⑤  $\frac{r \cos(\pi - \alpha) - r \sin(\pi - \alpha)}{\sin(r\pi) - \cos(r\pi)}$

$\frac{r \cos(\pi - \alpha) - r \sin(\pi - \alpha)}{\sin(r\pi) - \cos(r\pi)} = \frac{r \cos(\pi - \alpha) - r \sin(\pi - \alpha)}{\sin(\pi + r\pi) - \cos(\pi + r\pi)}$   
 $= \frac{r \cos \alpha - r \sin \alpha}{-\sin r\pi - \cos r\pi} = \frac{r(\cos \alpha - \sin \alpha)}{-\sin r\pi - \cos r\pi}$

⑥  $\cos \alpha = \frac{y}{r} \rightarrow \begin{cases} \sin \alpha = \frac{\sqrt{r^2 - y^2}}{r} \\ \tan \alpha = \frac{\sqrt{r^2 - y^2}}{y} \end{cases}$

$\frac{\cos \alpha + \sin \alpha}{|\tan(\alpha) - 1|} = \frac{\frac{y}{r} + \left(\frac{\sqrt{r^2 - y^2}}{y}\right)}{\left|\frac{\sqrt{r^2 - y^2}}{y} - 1\right|} = \frac{y(\cos \alpha + \sin \alpha)}{y(\tan \alpha - 1)}$

⑦  $\frac{\sin \alpha + \cos \alpha}{\cos \alpha + \cos \alpha} = \frac{\sin \alpha + \cos \alpha}{2 \cos \alpha} = \frac{1}{2} \left( \frac{\sin \alpha}{\cos \alpha} + 1 \right) = \frac{1}{2} (\tan \alpha + 1)$

$\cos^2 \alpha = \frac{1}{2} \rightarrow \cos \alpha = \frac{\sqrt{2}}{2}$

Baharan

(A)

$$y_s = \frac{r m}{m^2 - r} x + r$$

$$\tan \theta_0 = \sqrt{r}$$

Subject

Year:

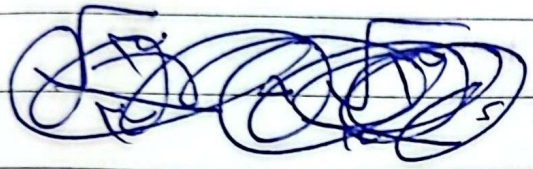
Month:

Date:

NOTE BOOK

$$= \frac{r m}{m^2 - r} \cdot \sqrt{r}$$

$$\sqrt{r} m^2 + r m - \sqrt{r} s = 0$$



$$\frac{-r + r}{r \sqrt{r}} \cdot \sqrt{r}$$

$$\frac{\sqrt{r}}{r} + \sqrt{r} \cdot \frac{\sqrt{r}}{r} = \frac{\sqrt{r}}{r} + \frac{r}{r} = \frac{\sqrt{r} + r}{r}$$

$$\tan\left(\frac{\pi}{4} - \left(-\frac{\pi}{4}\right)\right) = \tan\left(\frac{\pi}{2}\right) = \infty$$

$$\tan\left(\frac{\pi}{4} - \frac{\pi}{4}\right) = \tan 0 = 0$$

$$m_s = \frac{-r(m-1)}{m_s - r}$$

Subject \_\_\_\_\_

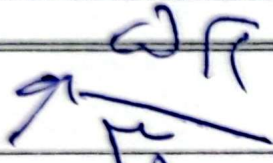
Year: \_\_\_\_\_

Month: \_\_\_\_\_

Date: \_\_\_\_\_

NOTE BOOK

10



$$\tan(\theta_0) \cos(\theta_1) + \tan(\theta_0) \sin(\theta_1)$$

$$\sin(-\sqrt{\mu}) \left(-\frac{\sqrt{\mu}}{\rho}\right) + \left(-\sqrt{\mu}\right) \left(\frac{\sqrt{\mu}}{\rho}\right)$$

$$\sin \frac{\mu}{\rho} - \frac{\mu}{\rho} = 0$$