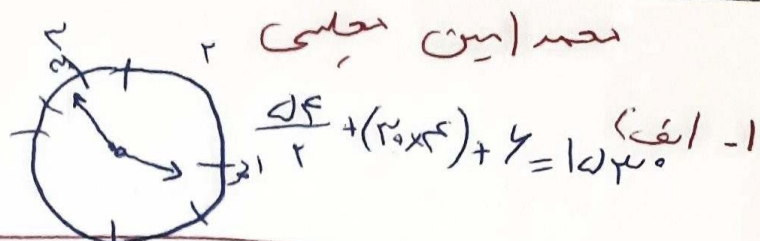
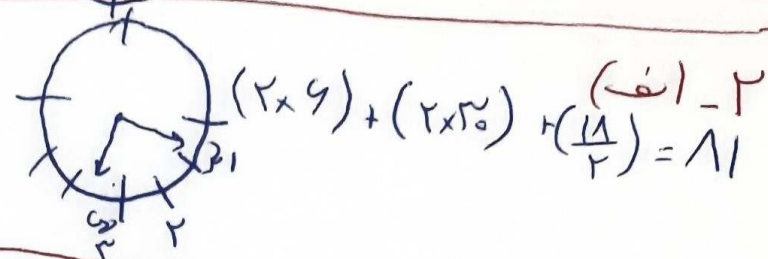


$$|d/dm - r_0 h| \Rightarrow |29V - 90| = r_0 V$$

$$29V - 90V = 10V$$



$$|d/dm - r_0 h| = |99 - 110| = 11$$



$$r + r + \left(\frac{\pi}{4} \times r\right) = \frac{4}{\pi} \times \frac{\pi}{4} R = \frac{\pi}{4} \times r = \frac{\pi}{4} \times 9 = \frac{9\pi}{4}$$

$$\frac{1}{r} a b \sin A = \frac{1}{r} \times 1 \times d \times \frac{\sqrt{r}}{r} = 10 \sqrt{r}$$

$$c = \sqrt{a^2 + b^2 + 2ab \cos \alpha} = \sqrt{4^2 + 1^2 - 2 \times 1 \times d \times \frac{1}{r}} = \sqrt{17} = \sqrt{1 + d} + \sqrt{16} = 10$$

$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C} \Rightarrow \frac{10}{\frac{1}{r}} = \frac{10\sqrt{r}}{\sin B} \Rightarrow 10 \sin B = 10\sqrt{r} \Rightarrow \sin B = \frac{\sqrt{r}}{r}$$

$$\sin B = \frac{\sqrt{r}}{r} \Rightarrow B = \frac{\pi}{4} \Rightarrow \frac{\pi}{4} + C = \frac{5\pi}{4} \Rightarrow C = \frac{3\pi}{4} = 135^\circ$$

$$B + C = 180^\circ \Rightarrow C = 135^\circ$$

$$\frac{-\tan \alpha + r \tan \alpha}{-\tan \alpha - \tan \alpha} = \frac{r \tan \alpha}{-r \tan \alpha} = -1$$

$$\frac{\frac{\pi}{18}}{\frac{\pi}{180}} = \frac{D}{180} \Rightarrow D = 10^\circ \Rightarrow \frac{r \tan \left(\frac{\pi}{r} - 10\right) + \tan \left(\frac{\pi}{r} + 10\right)}{r \tan (\pi - 10) - 1}$$

$$\Rightarrow \frac{\cot 10}{-\tan 10 - 1} = \frac{1}{-r \tan 10 - 1} = \frac{1}{-r \tan 10 - 1}$$

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$$\frac{r \sin^2 + r \cos^2}{\sin^2 - \cos^2} = \Rightarrow \frac{r(\sin^2 + \cos^2)}{\sin^2 - \cos^2} = r \Rightarrow \sin^2 - \cos^2 = \frac{r}{r} \frac{1}{\cos^2} \quad - 1$$

$$\frac{\sin^2}{\cos^2} - \frac{\cos^2}{\cos^2} = \frac{r}{r} \Rightarrow \tan^2 x = \frac{r}{r} + 1 \Rightarrow \tan^2 = \frac{d}{r}$$

$$\sin^2 - r \cos^2 = r \sin^2 + 1 \cos^2 \quad \xrightarrow{\div \cos^2} \Rightarrow \tan^2 - r + \frac{1}{\cos^2} = r \tan^2 + 1 - r \frac{1}{\cos^2} \quad - 9$$

$$\tan^2 - r + 1 + \tan^2 = r \tan^2 + 1 - r - r \tan^2 \Rightarrow 4 \tan^2 = d$$

$$\tan^2 = \frac{d}{r}$$

$$\cos^2 \frac{r}{d} = \frac{1 + \frac{\sqrt{r}}{r}}{r} = \frac{r + \sqrt{r}}{r} \Rightarrow \cos^2 \frac{r}{d} = \frac{\sqrt{r} + \sqrt{r}}{r} \quad - 12 \text{ - انب}$$

$$\sin^2 \frac{r}{d} = \frac{1 - \cos^2 \frac{r}{d}}{r} = \frac{r - \sqrt{r}}{r} \Rightarrow \sin^2 \frac{r}{d} = \frac{\sqrt{r} - \sqrt{r}}{r} \quad - 13$$