

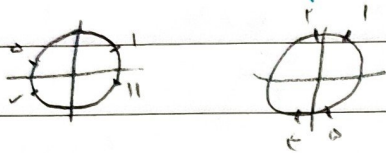
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نسترن اسامی

$$\tan \frac{11R}{f} + \sin \frac{10R}{f} \times \cos \frac{12R}{f} = -\cot + r \cos \times \sin = -\cot + \cos \times -\sin \quad (1)$$



$$\tan \frac{12R}{f} \times \sin \frac{11R}{f} + \cos \frac{10R}{f} = -\cot \times -\cos + -\sin = -\cot \times -\cos - \sin$$



$$\frac{1}{f} \cos \frac{11R}{f} + \sin \frac{10R}{f} \times \cos \frac{12R}{f} = -\cot + r \cos \times \sin = -\cot + \cos \times -\sin$$

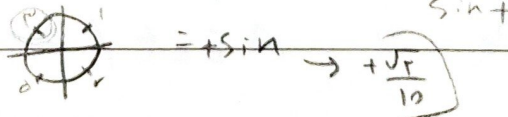
$$\cot = r \quad \frac{\cos}{\sin} \rightarrow \tan = \frac{1}{f}$$

$$\frac{r \cos - \sin}{\cos + \sin} = \frac{r \cos}{\cos} - \frac{\sin}{\cos} = \frac{r - \tan}{1 + \tan} = \frac{r - \frac{1}{f}}{1 + \frac{1}{f}} = \frac{\frac{r-1}{f}}{\frac{f+1}{f}} = \frac{r-1}{f+1} = \frac{11}{10} = \frac{1}{10}$$

$$\sin \alpha = r \cos \alpha / \alpha = r \cos \alpha / \cos = ? / f$$

$$\sin = 1 - \cos = r \cos \Rightarrow 1 = r \cos \Rightarrow \frac{1}{r} = \cos$$

$$\sin = \frac{\sqrt{r}}{10} / \cos \left(\frac{11R}{f} + \alpha \right) = ? / \alpha = r \cos$$



$$\tan = \frac{1}{f} / \sin \left(\frac{11R}{f} + \alpha \right) / \alpha = r \cos$$



- cos

$$1 + \tan r = \frac{1}{\cos r} \rightarrow 1 + \left(\frac{1}{f} \right) r = \frac{1}{\cos r} \Rightarrow \frac{1}{1} + \frac{1}{f} = \frac{f}{f} + \frac{1}{f} = \frac{f+1}{f} = \frac{1}{\cos r} \Rightarrow$$

$$\cos r = \frac{f}{f+1} \Rightarrow \cos = \frac{f}{f+1}$$

$$r \sin^2 + \cos^2 = \frac{r}{r} \quad / \quad \tan^2 = ?$$

$$r \sin^2 + 1 - \sin^2 = \frac{r}{r}$$

$$1 + \sin^2 = \frac{r}{r}$$

$$\sin^2 = \frac{r}{r} - 1$$

$$\sin = \frac{1}{r}$$

$$\sin^2 + \cos^2 = 1$$

$$\left(\frac{1}{r}\right)^2 + \cos^2 = 1$$

$$\frac{1}{r^2} + \cos^2 = 1$$

$$\cos^2 = 1 - \frac{1}{r^2}$$

$$\cos^2 = \frac{r^2 - 1}{r^2} \Rightarrow \cos = \frac{\sqrt{r^2 - 1}}{r}$$

$$\left(\frac{\sin}{\cos}\right)^2 = \frac{\frac{1}{r^2}}{\frac{r^2 - 1}{r^2}} = \left(\frac{1}{\sqrt{r^2 - 1}}\right)^2 = \frac{1}{r^2 - 1}$$

$$\frac{1}{2} \sqrt{r^2 - 1} \quad / \quad s = r/a$$

$$\frac{1}{r} \times \sqrt{r^2 - 1} \times s \times \sin \alpha = r \sqrt{r^2 - 1} \sin \alpha = r/a$$

$$\sin \alpha = r/a \times \frac{1}{r \sqrt{r^2 - 1}} = \frac{\sqrt{r^2 - 1}}{r} \quad \left[\frac{r_0}{s_0} = r \right]$$

$$s = a s / \frac{r}{r}$$

$$b = rk, a = rk \Rightarrow ab \sin 180^\circ = rk \times rk \times \frac{1}{r} = rk^2 = af$$

$$k^2 = 1/a \Rightarrow k = \sqrt{1/a} \quad p = r(a+b) = r(4\sqrt{r} + 9\sqrt{r}) = r \times 13\sqrt{r} = 13r\sqrt{r}$$

$$AD = a + r = v \quad \int \Rightarrow \quad AE = f / AC = v / AD = v / AB = a$$

$$AC = f + r = v$$

$$S_{ABC} = \frac{1}{2} AB \times AC \times \sin A = \frac{1}{2} \times a \times v \times \sin A = 1/2 a v \sin A$$

$$S_{ADE} = \frac{1}{2} AD \times AE \times \sin A = \frac{1}{2} \times v \times f \times \sin A = 1/2 f v \sin A$$

$$(1/2 a v - 1/2 f v) \sin A = r/a \sin A = 1/2 a v$$

$$\sin A = \frac{1/2 a v}{r/a} = \frac{1}{r} \quad \tan A = \tan 90^\circ = \frac{1}{\sqrt{r}}$$



$$\frac{BN}{BC} = \frac{r/r}{\omega/r} = \frac{r}{\omega}$$

$$BM = 1 - e = \frac{a}{r}$$

$$BC = BN + NC = \frac{a}{r} + \frac{a}{r}$$

$$Am = \frac{1}{r}$$

$$\frac{BM}{Am} = \frac{\frac{a}{r}}{\frac{1}{r}} = a$$

$$NC = e$$

$$BN = \frac{r}{r}$$

$$\frac{1}{\sqrt{\cos^2}} \tan = \frac{1 + \sin}{|\cos|} \Rightarrow \frac{1}{\cos^2} - \frac{\sin}{\cos} = \frac{1}{\cos} + \frac{\sin}{|\cos|}$$

$$\frac{|\sin|}{\cos} = \frac{-1}{\cos \alpha} \Rightarrow \frac{|\sin|}{\cos} = \frac{-\sin}{\cos} = |\sin| = -\sin \alpha$$

$$-\cos = |\cos|$$

$$\cos \leftarrow$$

$$\cos \leftarrow$$

$$\sqrt{r^2 - b^2} = a$$

