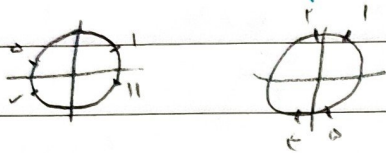


$$\tan \frac{11R}{r} + \sin \frac{10R}{r} \times \cos \frac{11R}{r} = -\cot + \cos x \cdot \sin = -\cot + \cos x - \sin \quad (1)$$



$$\tan \frac{10R}{4} \times \sin \frac{11R}{10} + \cos \frac{10R}{10} = -\cot x - \cos + -\sin = -\cot x - \cos - \sin$$



$1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100$

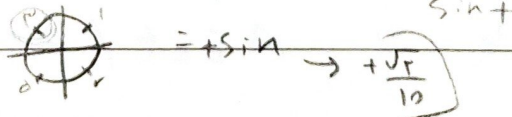
$$\cot = r \frac{\cos}{\sin} \rightarrow \tan = \frac{1}{r}$$

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

$$\sin \alpha = r \cos \alpha / \alpha = p \cdot q / \cos = ?$$

$$\sin = 1 - \cos = 4 \cos \Rightarrow 1 = 5 \cos \Rightarrow \frac{1}{5} = \cos$$

$$\sin = \frac{\sqrt{r}}{10} \quad / \quad \cos\left(\frac{11R}{K} + \alpha\right) = ? \quad / \quad \alpha = 22.6^\circ$$



$$\tan: \frac{1}{v} / \sin\left(\frac{1PR}{f} + \alpha\right) / \alpha = \text{JPR}$$



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$$1 + \tan^2 r = \frac{1}{\cos^2 r} \rightarrow 1 + \left(\frac{1}{\sqrt{}}\right)^2 = \frac{1}{\cos^2 r} \Rightarrow \frac{1 + \frac{1}{f_9}}{1} = \frac{f_9}{f_9} + \frac{1}{f_9} = \frac{\infty}{f_9} = \frac{1}{\cos^2 r} \Rightarrow$$

~~$$\cos r = \frac{r_9}{\sin} \rightarrow \cos = \frac{+1}{\sqrt{2}}$$~~

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

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

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

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

$$\sin = \sqrt{\frac{f}{r} - 1}$$

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

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

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

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

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

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

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

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

$$\sin \alpha = r/a \times \frac{1}{r \sqrt{r}} = \frac{\sqrt{r}}{r}$$

$$\frac{r_0}{s_0} = r$$

$$\rightarrow 1/r_0, 1/s_0$$

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

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

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

$$AD = a + r = v$$

$$\int =) \quad AE = f / AC = v / AD = v / AB = a$$

$$AC = f + r = v$$

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

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

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

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



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

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

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

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

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

$$NC = e$$

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

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

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

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

$$\cos \leftarrow \cos$$

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

