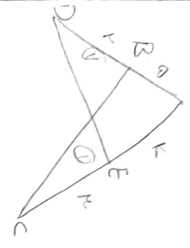




$$S = r_1 \times r_2 \times \sin \alpha = r_1 r_2 \sin \alpha$$

$$r_1 r_2 \sin \alpha = \Delta \Delta \Rightarrow \alpha = \arcsin \left(\frac{\Delta}{r_1 r_2} \right) \Rightarrow \alpha = \arcsin \left(\frac{\Delta}{\sqrt{r_1^2 + r_2^2}} \right)$$

1



$$S_{\Delta} = \frac{1}{2} a b \sin \alpha = \frac{1}{2} b c \sin \alpha$$

$$\frac{1}{2} a b \sin \alpha = \frac{1}{2} b c \sin \alpha \Rightarrow a = c$$

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2

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

$$\frac{1 - \sin \alpha}{\cos \alpha} = \frac{1 + \sin \alpha}{\cos \alpha} \Rightarrow 1 - \sin \alpha = 1 + \sin \alpha \Rightarrow -2 \sin \alpha = 0 \Rightarrow \sin \alpha = 0$$

3

$$(r_1, r_2) \rightarrow f = \alpha x + b \quad \left. \begin{array}{l} (r_1, r_2) \\ (0, 1) \end{array} \right\} \Rightarrow \alpha = r_1 + b$$

$$\tan \left(\frac{\pi}{4} - \alpha \right) = -\cot \alpha = -\frac{1}{\tan \alpha}$$

4

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

5

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

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

$\sin \alpha = r \cos \alpha \rightarrow \frac{\sin \alpha}{\cos \alpha} = r \rightarrow \tan \alpha = r$

$1 + \tan \alpha = \frac{1}{\cos \alpha} \Rightarrow 1 + r = \frac{1}{\cos \alpha} \Rightarrow \cos \alpha = \frac{1}{1+r}$

$r \cos \alpha - r = -(m^2 - 1) y \Rightarrow \frac{-r m}{m^2 - 1} = \sqrt{r} \Rightarrow -r m = \sqrt{r} m^2 \sqrt{r}$

$\tan = y_0 \quad \sqrt{r} m^2 + r m - \sqrt{r} = 0 \Rightarrow \Delta = r - 2(\sqrt{r})(-\sqrt{r}) = 4r$

$m_1 = \frac{-r + \sqrt{4r}}{2\sqrt{r}} = \frac{-r + 2\sqrt{r}}{2\sqrt{r}} = \frac{-\sqrt{r} + 2}{2}$
 $m_2 = \frac{-r - \sqrt{4r}}{2\sqrt{r}} = \frac{-r - 2\sqrt{r}}{2\sqrt{r}} = \frac{-\sqrt{r} - 2}{2}$

$\tan\left(\frac{x}{2} - \alpha\right) = \cot \alpha = \frac{1 - \tan \alpha}{r + \tan \alpha} > 0$

$\frac{-\sqrt{r} + 2}{-1 + \frac{-\sqrt{r} + 2}{2}} \Rightarrow \left(\frac{-\sqrt{r} + 2}{2}\right)$

$\tan(r y_0 - y_0) \cos(\ln \cdot x + r) + \tan(r y_0 + 1 r) \sin(k \ln \cdot x + 1 r)$

$\Rightarrow \tan(r y_0) \cos(r) + \tan(1 r) \sin(r) = -\sqrt{r} x - \frac{1}{r} + -\sqrt{r} x - \frac{1}{r} = r$

B

10

9

8

7

6