

$$\sec^2 A = 1 + \tan^2 A \rightarrow \tan A = \frac{SR}{AR} \rightarrow \sec A = AS$$

$$\left(\frac{AR}{AS}\right)^2 = 1 + \left(\frac{SR}{AR}\right)^2 \rightarrow \cot A = \frac{1}{\tan A}$$

$$\cot A = \frac{1}{\frac{SR}{AR}} \rightarrow \cot A = \frac{AR}{SR} \rightarrow \left(\frac{AR}{AS}\right)^2 = 1 + \left(\frac{SR}{AR}\right)^2$$

$$(AS)^2 = 1 + (SR)^2 \quad \sqrt{\left(\frac{AR}{AS}\right)^2} = \sqrt{1 + \left(\frac{SR}{AR}\right)^2} \rightarrow \left(\frac{AR}{AS}\right) = 1 + \left(\frac{SR}{AR}\right)$$

$$\tan A = \frac{SR}{AR} = \frac{SR}{1} = SR \quad \sec^2 A = AS^2 \quad \tan^2 A = SR^2$$

$$\tan A = \frac{\sin A}{\sqrt{1 - \sin^2 A}}$$

$$\sec^2 A = AS^2 \quad \tan^2 A = SR^2$$

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$$AS^2 = \left(\frac{1}{AR}\right)^2 \quad SR^2 = \left(\frac{SR}{AR}\right)^2 \quad \cos A = \frac{1}{\sin A} \quad \cos A = \frac{1}{SR}$$

$$\tan A = \frac{SR}{AS} \rightarrow \tan^2 A = \left(\frac{SR}{AS}\right)^2 \rightarrow \left(\frac{SR}{AS}\right)^2 = \left(\frac{SR}{AS}\right)^2$$

$$\tan^2 A = \left(\frac{SR}{AS}\right)^2 = 1 \quad \tan^2 A = \left(\frac{SR}{AR}\right)^2 = SR^2 \quad \sec^2 A = AS^2$$

$$\tan A = \frac{\sin A}{\cos A} = \left(\frac{SR}{AS}\right) \div \left(\frac{1}{AS}\right) = SR \rightarrow \tan^2 = \left(\frac{AS^2}{SR}\right)^2 = \frac{AS^4}{SR^2}$$

$$\sec^2 = SR^2 + \left(\frac{AS^4}{SR^2}\right) \quad \sin^2 A + \cos^2 A = 1 \quad \cos^2 A = 1 - \sin^2 A$$

$$\sec^2 A = \frac{1}{1 - \sin^2 A} \quad \tan^2 A = \frac{\sin^2 A}{1 - \sin^2 A} = \frac{\sin^2 A}{1 - \sin^2 A} = \frac{1}{1 - \sin^2 A}$$

$$\sec^2 A = \left(\frac{1}{1}\right) - \frac{1}{\sin^2 A} \quad \tan^2 A = \frac{\sin^2 A}{1 - \sin^2 A} = \frac{1}{1} - \left(\frac{\sin^2 A}{1 - \sin^2 A}\right) = \frac{1}{1} - \frac{1}{\sin^2 A} \quad \sec = \frac{1}{\cos}$$

$$1 + \tan^2 A = 1 + \left(-\frac{1}{\sin^2 A}\right) \quad \sec^2 A = \left(\frac{1}{\sin^2 A}\right) \quad \sec^2 A = SR^2 \quad \tan = \frac{\sin}{\cos}$$

$$\tan^2 A = AS^2 \quad \tan^2 = \left(\frac{SR}{AS}\right)^2 = \left(\frac{SR}{AS}\right)^2 = \left(\frac{SR}{AS}\right)^2 = \frac{SR^2}{AS^2}$$

$$\tan^2 = \left(\frac{SR + AR}{AS}\right)^2 = 1 + \left(\frac{SR}{AS}\right)^2 \quad \sec^2 = \left(\frac{1}{\left(\frac{SR}{AS}\right)}\right)^2 = \left(\frac{1}{SR}\right)^2 = \left(\frac{SR}{AS}\right)^2 \quad \cot = \frac{1}{\tan}$$

$$\sec^2 A = SR \quad \tan^2 = 1 + \sin^2 = \left(1 + \left(\frac{SR}{AS}\right)^2\right) \quad \tan^2 = \sin^2 A$$

$$\tan^2 A = \left(\frac{\sin A}{\sec A}\right)^2 = \left(\frac{\left(\frac{SR}{AS}\right)^2}{\left(\frac{SR}{AS}\right)}\right)^2 = \left(\frac{SR}{AS}\right)^2 \quad \sec^2 A = \frac{1}{SR^2}$$

$$\cos^2 = \frac{1}{\left(\frac{SR}{AS}\right)^2} \quad \cot = \frac{1}{\tan^2} = \frac{1}{1 + \sin^2} = \frac{1}{SR^2 + 1 + \left(\frac{SR}{AS}\right)^2}$$

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