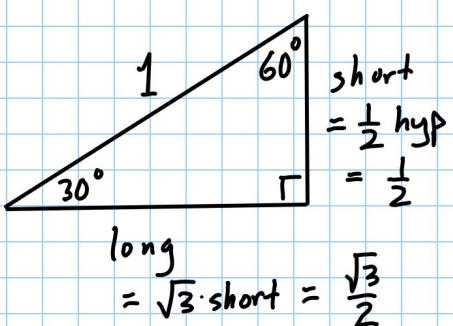
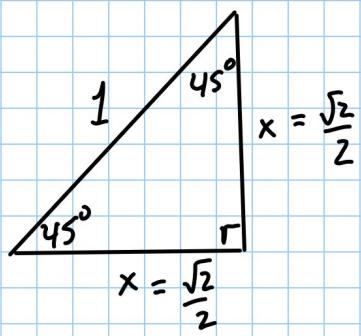


$$\underline{30^\circ - 60^\circ - 90^\circ}$$



$$\underline{45^\circ - 45^\circ - 90^\circ}$$



$$\begin{aligned}
 x^2 + x^2 &= 1^2 \\
 2x^2 &= 1 \\
 x^2 &= \frac{1}{2} \\
 x &= \sqrt{\frac{1}{2}} = \frac{\sqrt{1}}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}} = \frac{\sqrt{2}}{2}
 \end{aligned}$$

On Unit Circle

$$\sin \theta = y \quad \csc \theta = \frac{1}{y}$$

$$\cos \theta = x \quad \sec \theta = \frac{1}{x}$$

$$\tan \theta = \frac{y}{x} \quad \cot \theta = \frac{x}{y}$$

ex: Find 6 trig function values of $\frac{11\pi}{6}$

$$\sin \frac{11\pi}{6} = -\frac{1}{2}$$

$$\cos \frac{11\pi}{6} = \frac{\sqrt{3}}{2}$$

$$\tan \frac{11\pi}{6} = \frac{-\frac{1}{2}}{\frac{\sqrt{3}}{2}} = -\frac{1}{2} \cancel{\frac{2}{\sqrt{3}}} = -\frac{1}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}} = -\sqrt{3}$$