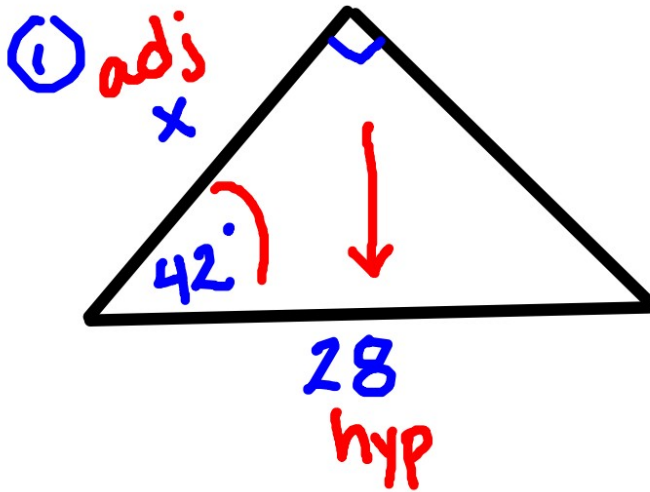


Find x:

DRILL



$$28 \cos 42^\circ = \frac{x}{28} \cdot 28$$

$$x \approx 20.81$$

$$\theta \pm 2\pi$$

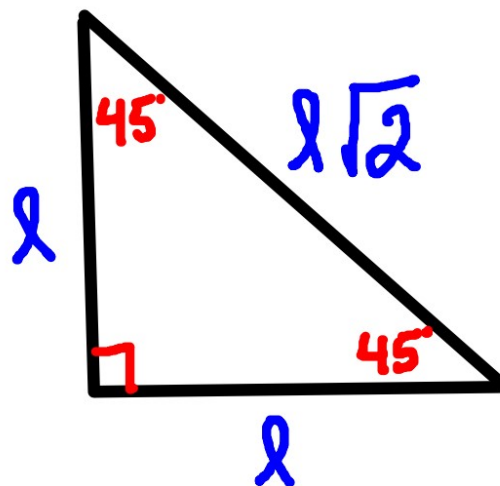
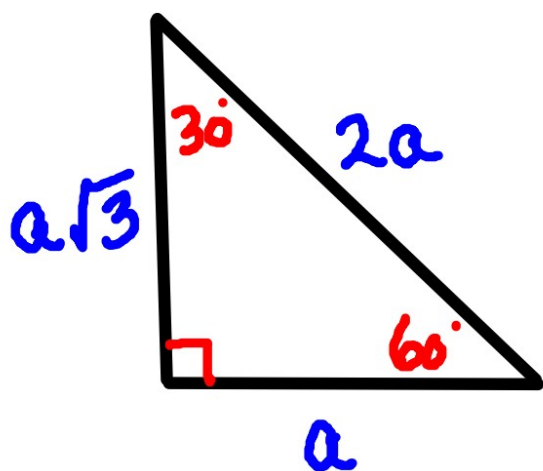
② What are two coterminal angles for the angle $\frac{7\pi}{3}$?

$$2\pi = \frac{6\pi}{3}$$

$$\frac{7\pi}{3} \pm \frac{6\pi}{3} = \frac{\pi}{3} \text{ or } \frac{13\pi}{3}$$
$$\frac{-5\pi}{3} \text{ or } \frac{19\pi}{3}$$

Unit Circle

Special Right Triangles



$$\sin 30^\circ = \frac{1a}{2a} = \frac{1}{2}$$

$$\sin 60^\circ = \frac{a\sqrt{3}}{2a} = \frac{\sqrt{3}}{2}$$

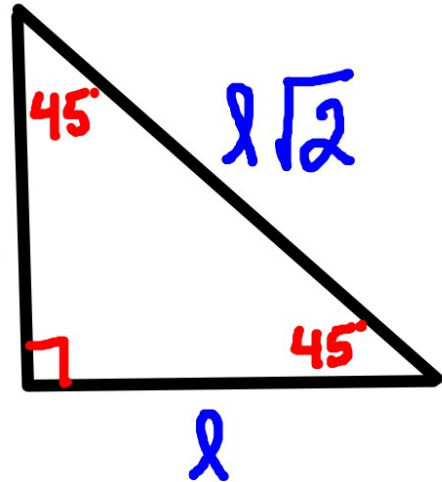
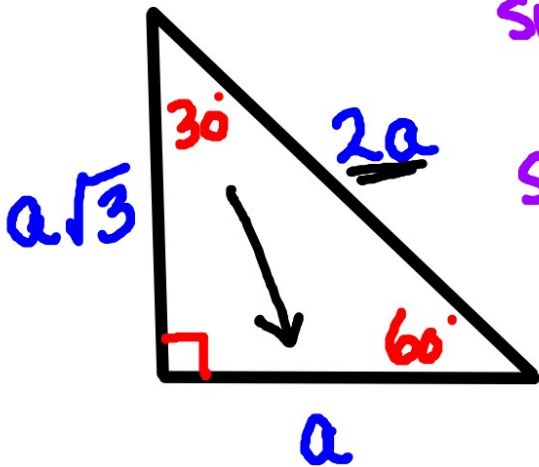
$$\cos 30^\circ = \frac{a\sqrt{3}}{2a} = \frac{\sqrt{3}}{2}$$

$$\cos 60^\circ = \frac{1a}{2a} = \frac{1}{2}$$

$$\sin 45^\circ = \frac{1}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}}$$

$$\sin 45^\circ = \frac{\sqrt{2}}{2}$$

$$\cos 45^\circ = \frac{\sqrt{2}}{2}$$



* $\sin \theta = \cos (90 - \theta)$
* $\cos \theta = \sin (90 - \theta)$

