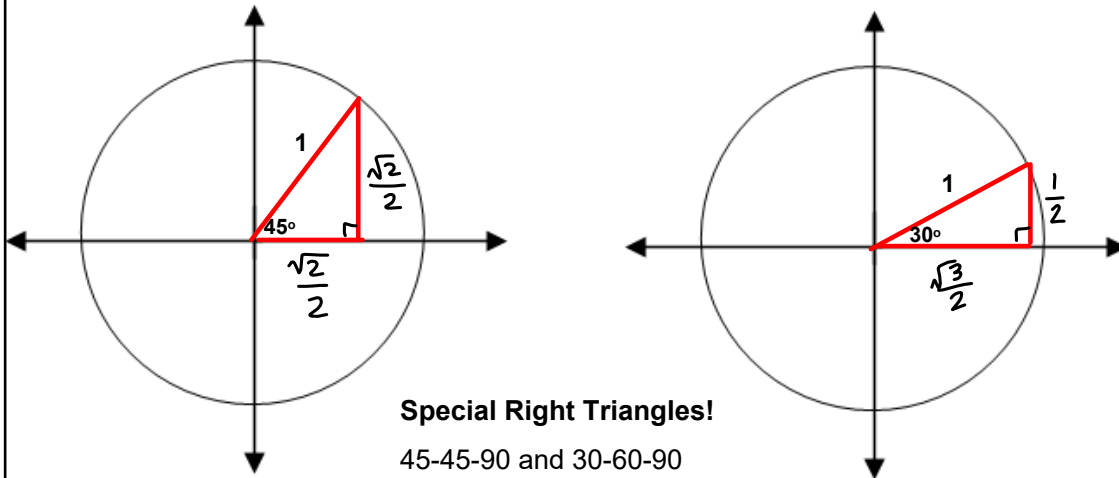


Unit 6 - Day 6 - The Unit Circle and Exact Values:

The Unit Circle

Main feature: Radius (hypotenuse) equals 1 unit



Apr 3-11:58 AM

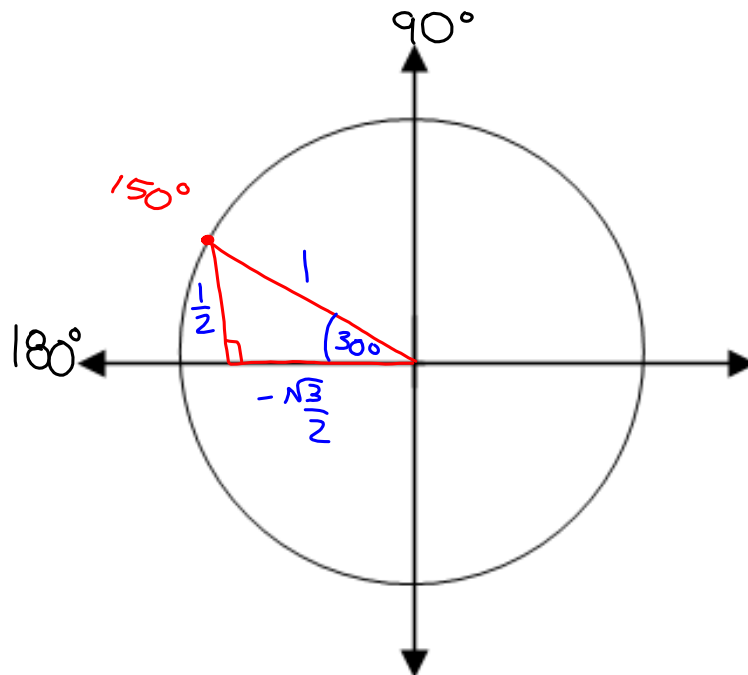
Find the exact value of each trigonometric function:

1. $\cos 150^\circ$

$$= \frac{\text{adj}}{\text{hyp}}$$

$$= \frac{-\sqrt{3}}{2}$$

$$= \left(\frac{-\sqrt{3}}{2} \right)$$



Apr 3-12:00 PM

Find the exact value of each trigonometric function:

2. $\sin \frac{4\pi}{3}$ convert to degrees!

$\frac{4\pi}{3} \cdot \frac{180}{\pi} \rightarrow 240^\circ$

$= \frac{\text{opp}}{\text{hyp}}$

$= \frac{-\frac{\sqrt{3}}{2}}{1} = \left(-\frac{\sqrt{3}}{2} \right)$

Apr 3-12:01 PM

Find the exact value of each trigonometric function:

4. $\tan 135^\circ$

$= \frac{\text{opp}}{\text{adj}}$

$= \frac{\frac{\sqrt{2}}{2}}{-\frac{\sqrt{2}}{2}} = (-1)$

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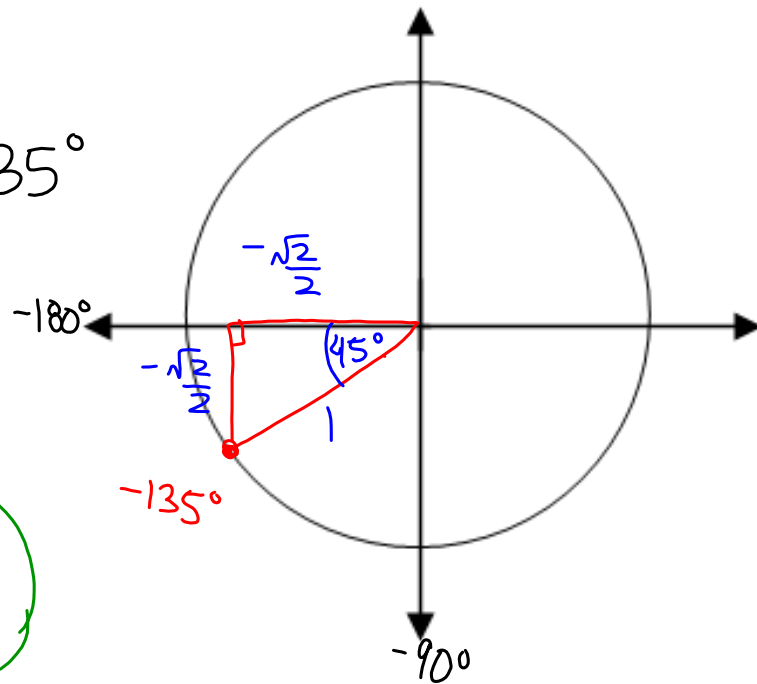
Find the exact value of each trigonometric function:

6. $\cos\left(-\frac{3\pi}{4}\right)$

$$\frac{-3\pi}{4} \cdot \frac{180}{\pi} \rightarrow -135^\circ$$

$$= \frac{\text{adj}}{\text{hyp}} =$$

$$= \frac{-\frac{\sqrt{2}}{2}}{1} = \left(-\frac{\sqrt{2}}{2}\right)$$



Apr 3-12:05 PM