

Exact Values (Degrees)

Date: _____ Hour: _____

Draw the reference triangle, list the quadrant, and label all sides of the triangle. Then, give all exact values of the given angle.

1) 150°

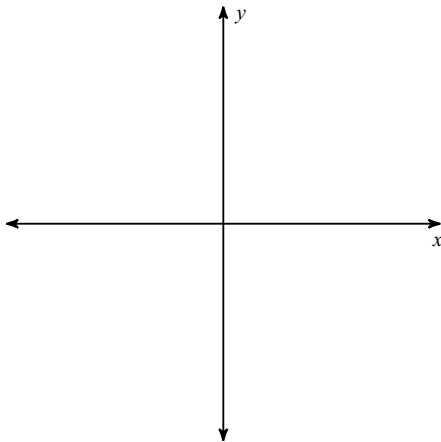
Quadrant:

RA:

$$\sin 150^\circ =$$

$$\cos 150^\circ =$$

$$\tan 150^\circ =$$

2) 135°

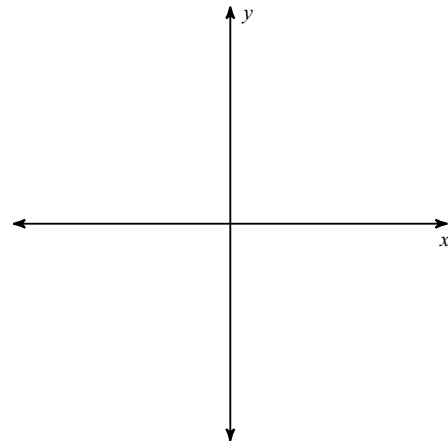
Quadrant:

RA:

$$\sin 135^\circ =$$

$$\cos 135^\circ =$$

$$\tan 135^\circ =$$

3) 300°

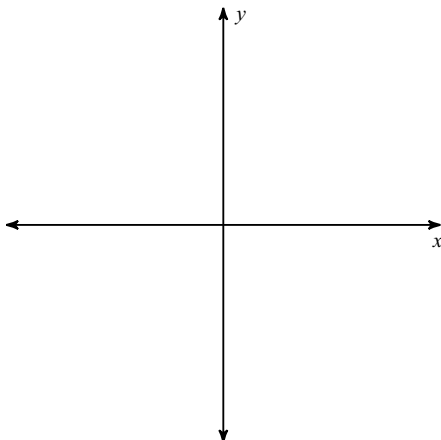
Quadrant:

RA:

$$\sin 300^\circ =$$

$$\cos 300^\circ =$$

$$\tan 300^\circ =$$

4) 225°

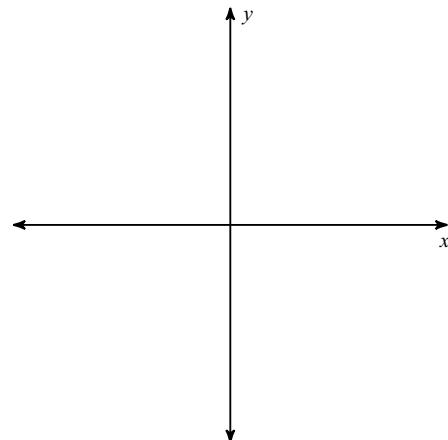
Quadrant:

RA:

$$\sin 225^\circ =$$

$$\cos 225^\circ =$$

$$\tan 225^\circ =$$



Answers to Exact Values (Degrees)

1) Quadrant: II
RA: 30°

$$\sin 150^\circ = \frac{1}{2}$$

$$\cos 150^\circ = -\frac{\sqrt{3}}{2}$$

$$\tan 150^\circ = -\frac{\sqrt{3}}{3}$$

2) Quadrant: II
RA: 45°

$$\sin 135^\circ = \frac{\sqrt{2}}{2}$$

$$\cos 135^\circ = -\frac{\sqrt{2}}{2}$$

$$\tan 135^\circ = -1$$

3) Quadrant: IV
RA: 60°

$$\sin 300^\circ = -\frac{\sqrt{3}}{2}$$

$$\cos 300^\circ = \frac{1}{2}$$

$$\tan 300^\circ = -\sqrt{3}$$

4) Quadrant: III
RA: 45°

$$\sin 225^\circ = -\frac{\sqrt{2}}{2}$$

$$\cos 225^\circ = -\frac{\sqrt{2}}{2}$$

$$\tan 225^\circ = 1$$