

Warm-up Unit Circle #2

Find the exact values: (No Calculator)

$$1. \sin\left(-\frac{\pi}{6}\right) = -\frac{1}{2}$$

$$2. \csc(-225^\circ) = \frac{1}{\frac{\sqrt{2}}{2}} = \frac{2}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}} = \frac{2\sqrt{2}}{2} = \sqrt{2}$$

$$3. \cot(90^\circ) = \frac{0}{1} = 0$$

$$4. \tan 150^\circ = \frac{\frac{\sqrt{2}}{2}}{-\frac{\sqrt{3}}{2}} = \frac{1}{2} \cdot -\frac{2}{\sqrt{3}} = -\frac{1}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}} = -\frac{\sqrt{3}}{3}$$

$$5. \sec(-330^\circ) = \frac{1}{\frac{\sqrt{3}}{2}} = \frac{2}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}} = \frac{2\sqrt{3}}{3}$$