

## Today's Plan:

**Learning Target (standard):** I will describe common angles and I will evaluate the trigonometric values of common angles.

**Students will:** Complete practice problems over previous concepts at the boards and take a quiz.

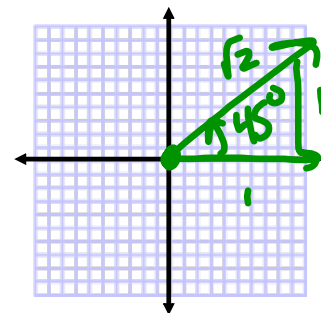
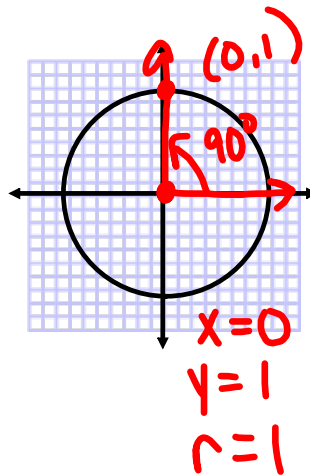
**Teacher will:** Provide practice problems over previous concepts, check homework problems for accuracy and provide students feedback, describe and provide quiz problems.

**Assessment:** Board work, homework check and quiz

**Differentiation:** Students will work at the board, go over and correct homework at their seats and actively engage in quiz problems.

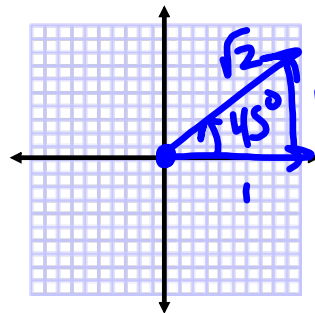
Find the exact value.

$$\begin{aligned} & \sin 90^\circ + \tan 45^\circ \\ &= 1 + 1 \\ &= 2 \end{aligned}$$

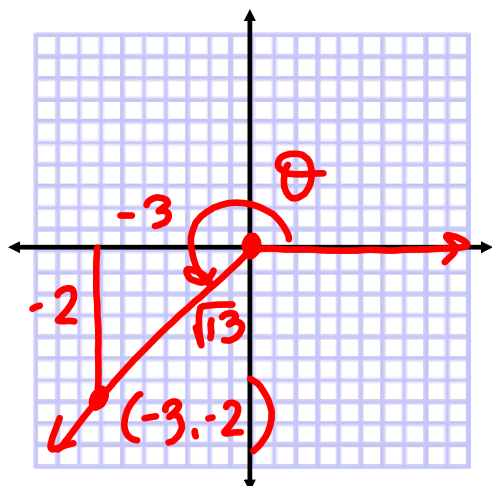


Find the exact value.

$$\begin{aligned} & \sin 45^\circ \cos 45^\circ \\ &= \left(\frac{\sqrt{2}}{2}\right) \left(\frac{\sqrt{2}}{2}\right) \\ &= \frac{2}{4} \\ &= \frac{1}{2} \end{aligned}$$



Find the trigonometric values of  $\theta$  when the terminal side of  $\theta$  passes through  $(-3,-2)$ .



$$r^2 = 9 + 4$$

$$\sqrt{r^2} = \sqrt{13}$$

$$r = \sqrt{13}, -\sqrt{13}$$

$$\sin \theta = \frac{-2\sqrt{13}}{13}$$

$$\csc \theta = -\frac{\sqrt{13}}{2}$$

$$\cos \theta = \frac{-3\sqrt{13}}{13}$$

$$\sec \theta = -\frac{\sqrt{13}}{3}$$

$$\tan \theta = \frac{2}{3}$$

$$\cot \theta = \frac{3}{2}$$

Approximate each value to three decimal places.

$$\sec 41^\circ = 1.325$$

$$\sin \frac{\pi}{10} = .309$$

$$\cot 70^\circ = .364$$

$$\csc \frac{\pi}{18} = 5.759$$