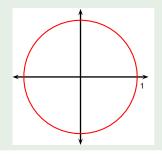
#### **Precalculus**

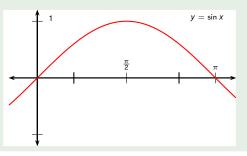
# The equation $\sin \theta = a$ , general

**Todor Miley** 

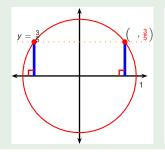
2019

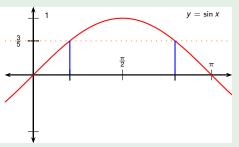
$$\sin \theta = \frac{3}{5}$$



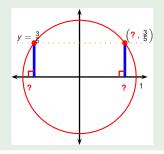


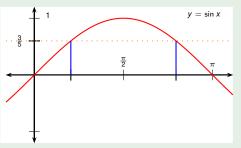
$$\sin \theta = \frac{3}{5}$$



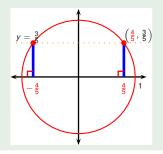


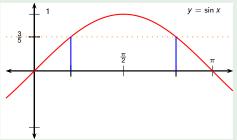
$$\sin \theta = \frac{3}{5}$$





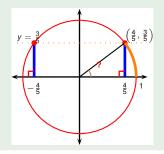
$$\sin \theta = \frac{3}{5}$$

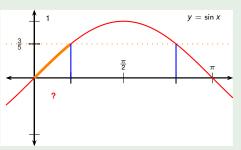




Find all solutions of the equation.

$$\sin\theta = \frac{3}{5}$$

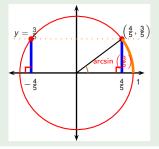


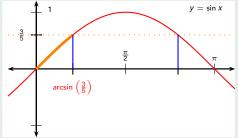


Find all solutions of the equation.

$$\sin \theta = \frac{3}{5}$$
 $\theta = \arcsin \left(\frac{3}{5}\right)$ 

arcsin implies radians





Find all solutions of the equation.

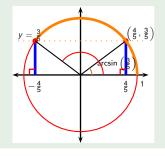
$$\sin \theta = \frac{3}{5}$$

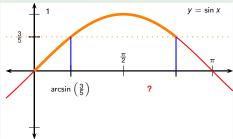
$$\theta = \arcsin \left(\frac{3}{5}\right)$$
or

arcsin implies radians

2

?





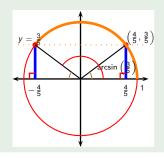
Find all solutions of the equation.

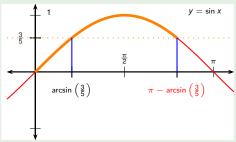
$$\sin \theta = \frac{3}{5}$$

$$\theta = \arcsin \left(\frac{3}{5}\right)$$
or

arcsin implies radians

?



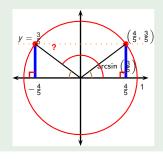


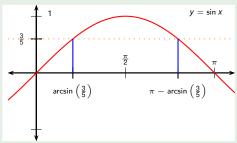
Find all solutions of the equation.

$$\sin \theta = \frac{3}{5}$$

$$\theta = \arcsin \left(\frac{3}{5}\right)$$

arcsin implies radians





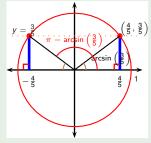
Find all solutions of the equation.

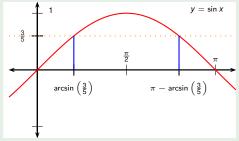
$$\sin \theta = \frac{3}{5}$$

$$\theta = \arcsin \left(\frac{3}{5}\right)$$

arcsin implies radians

$$\pi - \arcsin\left(\frac{3}{5}\right)$$

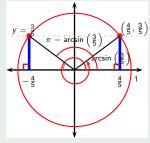


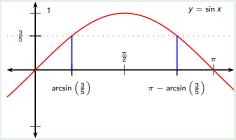


Find all solutions of the equation.

$$\sin \theta = \frac{3}{5}$$
 $\theta = \arcsin \left(\frac{3}{5}\right) + k \cdot (2\pi)$  | arcsin implies radians

$$\pi - \arcsin\left(\frac{3}{5}\right)$$



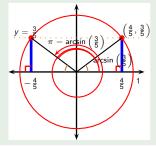


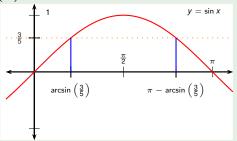
Find all solutions of the equation.

$$\sin \theta = \frac{3}{5}$$

$$\theta = \arcsin \left(\frac{3}{5}\right) + k \cdot (2\pi)$$
 | arcsin implies radians

$$\pi - \arcsin\left(\frac{3}{5}\right) + k \cdot (2\pi)$$





Find all solutions of the equation.

$$\sin \theta = \frac{3}{5}$$

$$\theta = \arcsin \left(\frac{3}{5}\right) + k \cdot (2\pi)$$
 | arcsin implies radians

$$\pi - \arcsin\left(\frac{3}{5}\right) + k \cdot (2\pi)$$

