

Precalculus

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

Todor Milev

2019

Example

Find all solutions of the equation.

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

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

or

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

