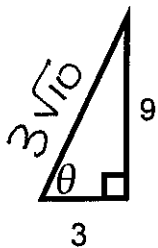


Warm-up: Find the 6 trig functions



$$\sin \theta = \frac{9}{3\sqrt{10}} = \frac{3}{\sqrt{10}} \cdot \frac{\sqrt{10}}{\sqrt{10}} = \boxed{\frac{3\sqrt{10}}{10}}$$

$$\cos \theta = \frac{3}{3\sqrt{10}} = \frac{1}{\sqrt{10}} \cdot \frac{\sqrt{10}}{\sqrt{10}} = \boxed{\frac{\sqrt{10}}{10}}$$

$$\tan \theta = \frac{9}{3} = \boxed{3}$$

$$3^2 + 9^2 = c^2$$

$$9 + 81 = c^2$$

$$\sqrt{90} = \sqrt{c^2}$$

$$10 \cdot 9$$

$$\quad \wedge$$

$$\quad 3 \cdot 3$$

$$3\sqrt{10} = c$$

$$\csc \theta = \boxed{\frac{\sqrt{10}}{3}}$$

$$\sec \theta = \boxed{\sqrt{10}}$$

$$\cot \theta = \boxed{\frac{1}{3}}$$