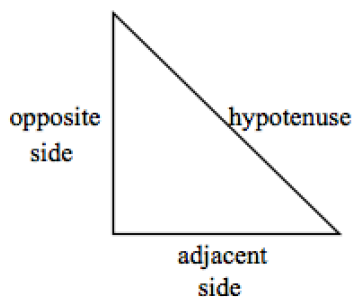


Section 2-4 Six Trigonometric Functions



SOH-CAH-TOA

Let θ be an acute angle of a right triangle. The six trigonometric functions are:

sine

cosine

tangent

cosecant

secant

cotangent

$$\csc = \frac{1}{\sin}$$

$$\sec = \frac{1}{\cos}$$

$$\cot = \frac{1}{\tan}$$

Find a decimal approximation on the calculator. Round to 4 decimal places.

1. $\tan 50^\circ$ $\cot 50^\circ$

2. $\csc 72^\circ$

Find the exact values of the 6 trig functions of angle θ whose terminal side contains the given point.

3. $(-5, 2)$

If θ terminates in the given quadrant and has the given function value, find the exact values of the 6 trig functions.

4. Quadrant III, $\sin \theta = \frac{-4}{5}$