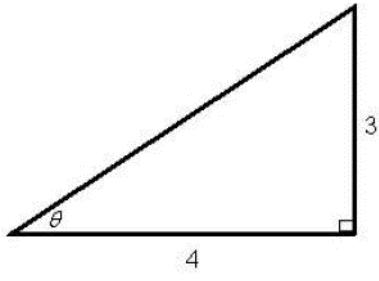


SM3 9.3: Right Triangle Trig & Reference Angles

Find the exact values of the six trigonometric functions of θ .

1)



$\sin \theta =$

$\csc \theta =$

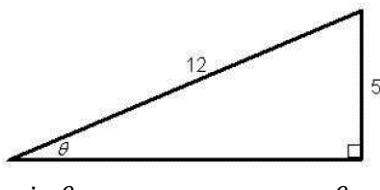
$\cos \theta =$

$\sec \theta =$

$\tan \theta =$

$\cot \theta =$

2)



$\sin \theta =$

$\csc \theta =$

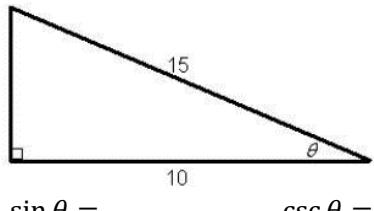
$\cos \theta =$

$\sec \theta =$

$\tan \theta =$

$\cot \theta =$

3)



$\sin \theta =$

$\csc \theta =$

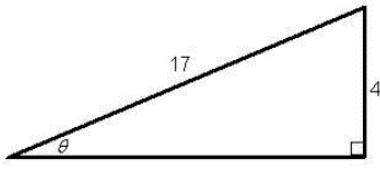
$\cos \theta =$

$\sec \theta =$

$\tan \theta =$

$\cot \theta =$

4)



$\sin \theta =$

$\csc \theta =$

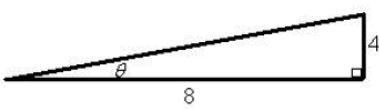
$\cos \theta =$

$\sec \theta =$

$\tan \theta =$

$\cot \theta =$

5)



$\sin \theta =$

$\csc \theta =$

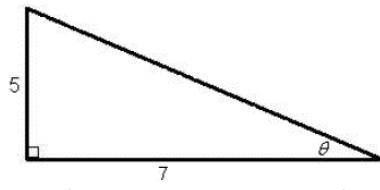
$\cos \theta =$

$\sec \theta =$

$\tan \theta =$

$\cot \theta =$

6)



$\sin \theta =$

$\csc \theta =$

$\cos \theta =$

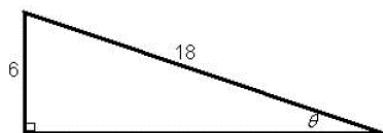
$\sec \theta =$

$\tan \theta =$

$\cot \theta =$

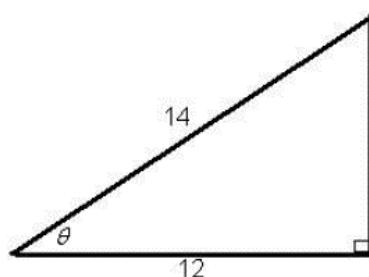
Determine the value of the indicated trig function.

7)



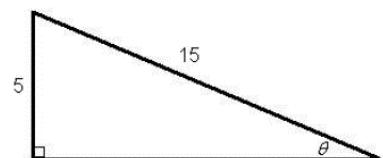
$$\sin \theta =$$

8)



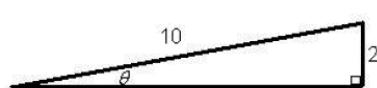
$$\tan \theta =$$

9)



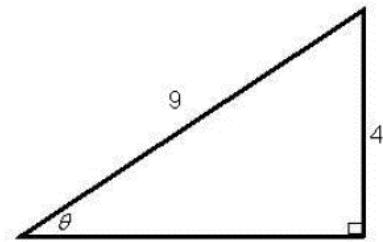
$$\cos \theta =$$

10)

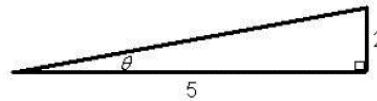


$$\sec \theta =$$

11)



12)



$$\cot \theta =$$

$$\csc \theta =$$

For each of the following, find the reference angle θ' .

13) $\theta = 57^\circ$

14) $\theta = 113^\circ$

15) $\theta = \frac{7\pi}{6}$

16) $\theta = \frac{5\pi}{3}$

17) $\theta = -\frac{2\pi}{3}$

18) $\theta = 300^\circ$

$$19) \quad \theta = -\frac{5\pi}{3}$$

$$20) \quad \theta = 280^\circ$$

$$21) \quad \theta = 1.2$$

$$22) \quad \theta = 420^\circ$$

$$23) \quad \theta = -60^\circ$$

$$24) \quad \theta = -2$$

$$25) \quad \theta = 100^\circ$$

$$26) \quad \theta = -\frac{4\pi}{3}$$

$$27) \quad \theta = \frac{11\pi}{6}$$

$$28) \quad \theta = -135^\circ$$

$$29) \quad \theta = \frac{17\pi}{6}$$

$$30) \quad \theta = \frac{\pi}{3}$$