

1. Use the given point on the terminal side of an angle θ in standard position to evaluate the six trigonometric ratios of θ .

a) $(-6, 8)$

b) $(7, -3)$

c) $(-4, -2)$

2. Sketch the following angles and find θ' , the reference angle.

a) 160°

b) 583°

c) -284°

3. Find the remaining five trigonometric ratios of θ .

a) $\sec \theta = \frac{6}{5}$, Quad I

b) $\tan \theta = -\frac{5}{3}$, Quad IV

c) $\sin \theta = \frac{5}{8}$, Quad II

4. Evaluate without a calculator (you may use your table).

a) $\cot 57^\circ$

b) $\cos 180^\circ$

c) $\sin 159^\circ$

d) $\tan 305^\circ$

e) $\sec(-137^\circ)$

f) $\sin(-372^\circ)$

g) $\cos 0^\circ$

h) $\csc 700^\circ$

i) $\tan(-810^\circ)$