Question

If $\sin \theta > 0$ and $\cos \theta > 0$, then the terminal point determined by θ is in:

quadrant 1.

quadrant 3.

quadrant 2.

quadrant 4.

Answer: Quadrant 1.

Question

If $\sec \theta = \dfrac{5}{3}$ and the terminal point determined by θ is in quadrant 4, then:

$$\sin \theta = -\frac{2}{5}$$

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

$$\csc \theta = -\frac{5}{4}$$

$$\tan \theta = \frac{4}{3}$$

Answer: $cos\theta = \frac{3}{5}$, $csc\theta = -5/4$.