

Please begin by drawing the special triangles and axis angles diagram.

1. Evaluate with exact answers. Show necessary work.

a) $\sin 210^\circ$

b) $\cos 315^\circ$

c) $\csc 120^\circ$

d) $\tan 270^\circ$

2. Determine the value(s) of θ for $0 \leq \theta \leq 360^\circ$. Show necessary work.

a) $\sin \theta = \frac{-1}{\sqrt{2}}$

b) $\sec \theta = 2$

c) $\csc \theta = \text{undefined}$