

1. Find  $\sec \theta$  given that  $\cos \theta = -\frac{2}{\sqrt{20}}$ .

2. Determine the signs of the trig functions of  $-200^\circ$ . (Hint: first get a nice coterminal angle!) ☺

3. Decide whether each statement is *possible* or *impossible*.

a)  $\sin \theta = 3$

b)  $\sec \theta = 100$

4. Suppose that angle  $\theta$  is in quadrant III and  $\tan \theta = \frac{8}{5}$ . Find the values of the other 5 trig functions.

5. Find  $\sin \theta$  and  $\cos \theta$ , given that  $\tan \theta = \frac{4}{3}$  and  $\theta$  is in quadrant III.