

## Lab 2: The Trig Functions

In this lab, you'll practice finding trig functions of angles when given limited information. Each task is worth 5 points (one for each trig function's value), for a total of 20 points. You must show work to earn any credit. Continue on the back if needed, but if you do, make sure you number your work.

**Task 1:** Find the exact values of the other 5 trig functions of  $\theta$  if  $\sin \theta = -\frac{4}{5}$  and  $\cos \theta > 0$ .

**Task 2:** Find the exact values of the other 5 trig functions of  $\theta$  if  $\tan \theta = \frac{4}{3}$  and  $\theta$  is in Quadrant III.

**Task 3:** Find the exact values of the other 5 trig functions of  $\theta$  if  $\csc \theta = 3$  and  $\cos \theta > 0$ .

**Task 4:** Find the exact values of the other 5 trig functions of  $\theta$  if  $\cot \theta = -\frac{1}{5}$  and  $\theta$  is in Quadrant II.