MAC 2311
Quiz One Sample

Please show all of your work in a NEAT and ORGANIZED fashion.

1. (2 points) Solve for x and write your answer in interval notation:

$$|1 - \frac{x}{3}| \geq 2.$$

2. (2 points) Find all x in the interval $[0, 2\pi)$ so that

$$\sec^2 x - \tan x - 1 = 0.$$

3. (2 points) If θ is in quadrant II and $\sin \theta = \frac{1}{4}$, find $\cos \theta$ and $\cos 2\theta$.