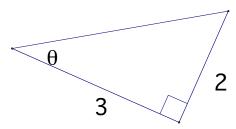
Quiz 5

Show all your work. No credit is given without reasonable supporting work. There are two sides to this quiz.

1. (§6.2 #5) Given the angle θ in the right triangle show on the right, answer the following:

(a) [1] $\tan \theta$



(b) [2] $\cos \theta$

2. [2] (WebHW13 #7) Let θ be an angle whose terminal side is in the 3rd quadrant and $\tan(\theta) = \frac{1}{3}$. Find $\sin(\theta)$

- 3. $(\S5.3 \#47)$ Let f be the function graphed below. (a) [1] Does f have an inverse? Why or why not? (b) [1] Find the amplitude of f.
 - (c) [1] Find the period of f.
 - (d) [1] Find the phase shift of f.
 - (e) [1] Write an equation that represents the graph of f in the form $y = a \sin k(x-b)$.