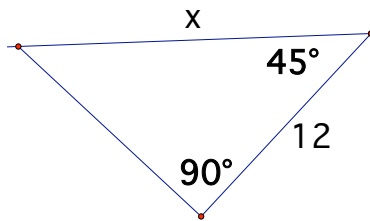# Quiz 5

Show *all* your work. No credit is given without reasonable supporting work. There are *two* sides to this quiz.
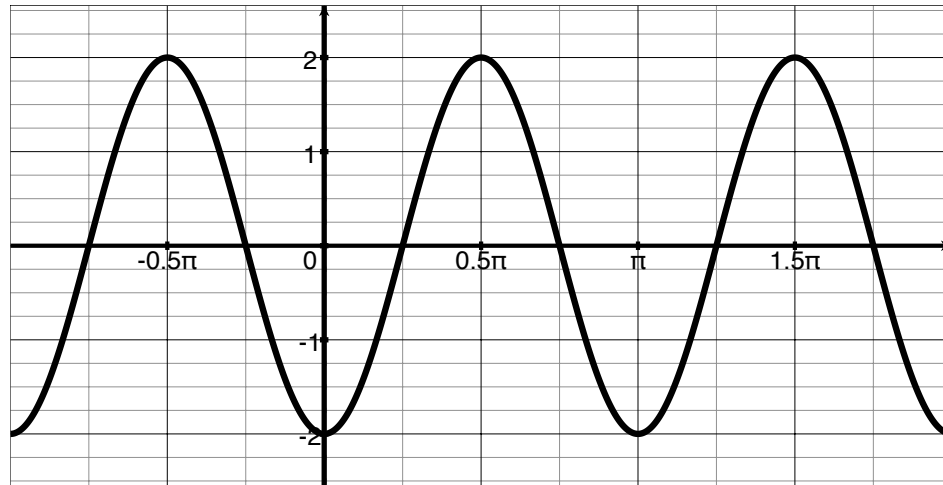
1. [3] (§5.2 #69) Given $\frac{\pi}{2} \le \theta \le \frac{3\pi}{2}$ and $\sin\theta = \frac{-1}{5}$. Find $\tan\theta$.

2. [1] (WebHW14 #10) Find the length of the side marked x in the triangle below.

3. [3] (WebHW13 #13) Write an equation that represents the curve below in the form:

$$y = a \cos k(x - b)$$

4. [3] (§7.4 #3 & 19) Evaluate the following exactly:

$$\arcsin\left(\frac{-1}{\sqrt{2}}\right) \qquad\qquad \sin^{-1}\left(\sin\left(\frac{\pi}{6}\right)\right)$$