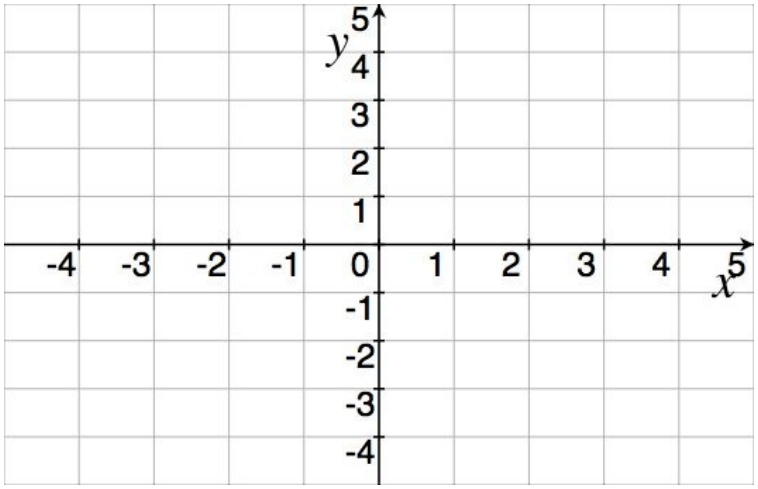
Quiz 4

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

1. [3] (WebHW10 #6)
   Let A be the point at $(-2, 3)$ and B be the point at $(2, 0)$ Find the equation of a circle with endpoints of a diameter at A and B.

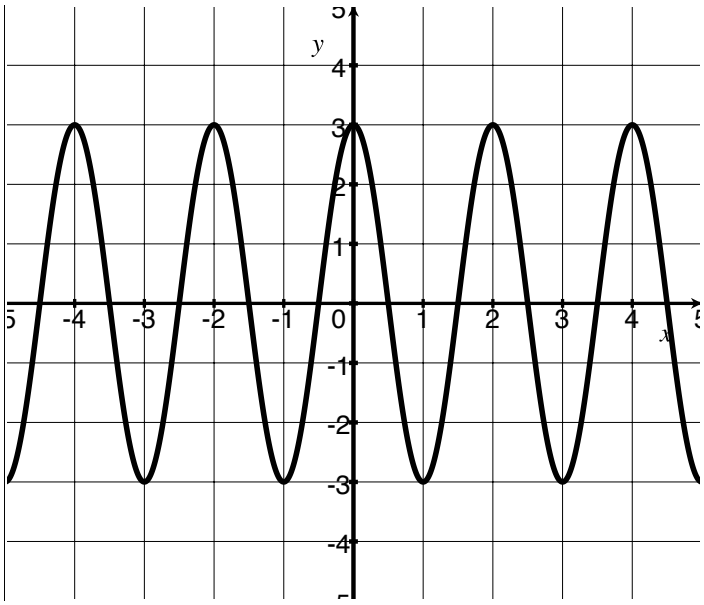


2. Let $\cos\theta = \frac{-\sqrt{3}}{2}$.

   (a) [2] (UnitCircleWks #3) Find the value(s) of $\sin\theta$.

   (b) [2] Find all the value(s) of θ.

3. (WebHW12 #11) Consider the graph of $f(x)$ shown below and to the right.



(a) [1] Find the period.

(b) [2] Find a the equation for f.