Dr. Kracht Spring 2014

Name: ______ Quiz Score: /20

Quiz 4

NO CALCULATORS.

 $\text{Consider the function } f(x) = -1 + 3\cos\left(\frac{1}{2}x + \frac{\pi}{6}\right) = -1 + 3\cos\left[\frac{1}{2}\left(x + \frac{\pi}{3}\right)\right].$

- 1. Find each of the following.
 - (a) (2 pts) amplitude: _____
 - (b) (2 pts) period: _____
 - (c) (2 pts) phase shift (horizontal translation):
 - (d) (2 pts) vertical translation:
- 2. (8 pts) Sketch the graph y = f(x). Fill out the whole coordinate grid.
- 3. (4 pts) Plot and label (with their ordered pairs) the 5 important points in one period.

