MATH 11022-006
TR 11:00

Trigonometry
Dr. Kracht
Spring 2014

Name: $\qquad$ Quiz Score $\qquad$ /20

## Quiz 4

NO CALCULATORS.
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: $\qquad$
(b) (2 pts) period: $\qquad$
(c) (2 pts) phase shift (horizontal translation): $\qquad$
(d) (2 pts) vertical translation: $\qquad$
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.

