

Name: \_\_\_\_\_

Date: \_\_\_\_\_

You may use HW10 on this quiz.

### Quiz 15

1. Consider the curve given by the parametric equations in polar form:

$$r = 1 + \cos \theta.$$

- (a) (4 points) Find all points on the curve where the tangent line is horizontal.

- (b) (4 points) Find all points on the curve where the tangent line is vertical.