

## Attendance Quiz 15

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

1. (a) For the cardioid  $r = 1 + \sin \theta$  find the slope of the tangent line when  $\theta = \frac{\pi}{3}$ .

(b) Find the points from interval  $0 \leq \theta < 2\pi$  on the cardioid where the tangent line is horizontal or vertical.