Time: 10min

## QUIZ 4

- 1. Compute the curvature of a circle of radius r.
- **2.** Suppose that a particle has initial position r(0) = <1, 0, 0>, and initial velocity v(0) = <1, 1, 1>. Find the position vector of the particle, r(t), assuming that no force is acting on it (a(t) = 0).

Each problem is worth 5 pts.