CIRCLES

Find parametric equations for the following circles. Be sure to state the range of values for your parameter.

1. The circle of radius 1 with center at the origin (aka the unit circle). Give three different parametrizations including one that traces the circle in the clockwise direction.

2. The circle of radius 2 with center at the origin.

3. The circle with center at the origin that contains the point $(1,1)$.

4. The circle of radius 2 with center at $(1,1)$.

5. The circle of radius $\sqrt{2}$ with center at the origin.