

## 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.