Parametrize the following curves:

1. The circle of radius 4 centered at the origin moving counterclockwise.
2. The circle of radius 4 centered at the origin moving clockwise.
3. The sine curve $y=\sin (x)$ on the interval $[0, \pi]$.
4. The right half of the circle of radius 2 centered at $(1,2)$ moving from bottom to top.
5. The four-leaf clover given in polar coordinates by $r=\cos (2 \theta)$.
6. A 3-D spiral of constant radius
