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