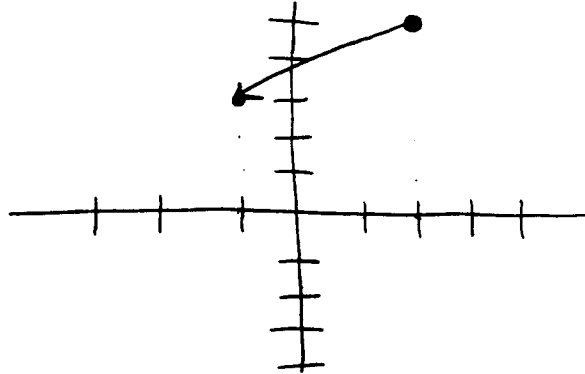
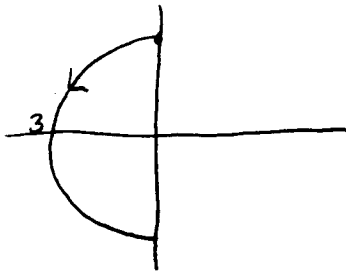


1. Give parametric equations $x(t)$, $y(t)$, and bounds for t that produce a line segment from $(2,5)$ to $(-1,3)$.

$$\begin{aligned} x(t) &= 2 - 3t \\ y(t) &= 5 - 2t \\ 0 &\leq t \leq 1 \end{aligned}$$



2. Give parametric equations $x(t)$, $y(t)$, and bounds for t that produce the left half of a circle (centered at the origin) of radius 3 traversed counterclockwise.



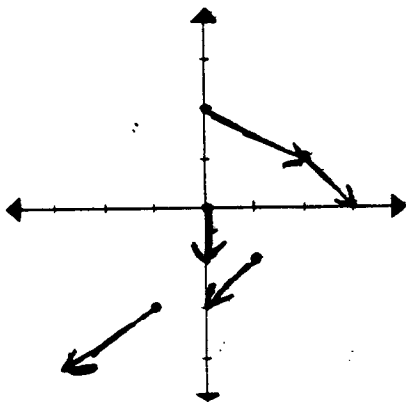
$$x(t) = 3 \cos t$$

$$y(t) = 3 \sin t$$

$$\frac{\pi}{2} \leq t \leq \frac{3\pi}{2}$$

Good!

3. Plot the vector field $F(x,y) = yi - 1j$ for the points $(0,0)$, $(2,1)$, $(0,2)$, $(1,-1)$, and $(-1,-2)$ indicated on the coordinate system below.



$$\langle y, -1 \rangle$$

$$\text{at } (0,0) = \langle 0, -1 \rangle$$

$$\text{at } (2,1) = \langle 1, -1 \rangle$$

$$\text{at } (0,2) = \langle 2, -1 \rangle$$

$$\text{at } (1,-1) = \langle -1, -1 \rangle$$

$$\text{at } (-1,-2) = \langle -2, -1 \rangle$$