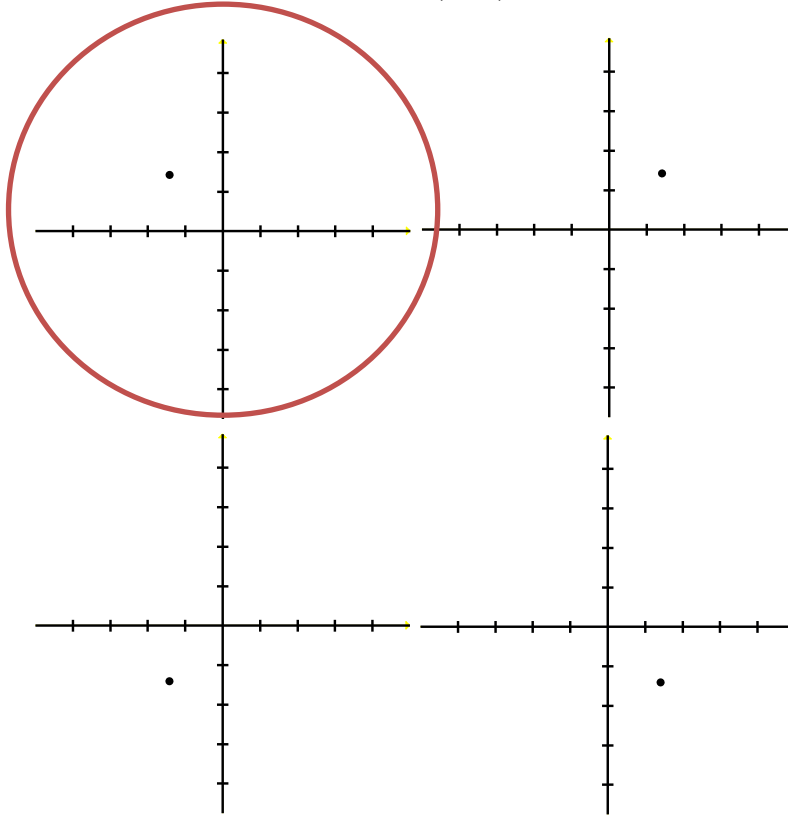1) Which of the following graphs below give the point $\left(2, \frac{3\pi}{4}\right)$? It's in polar coordinates. Circle your answer.

2) Given the parametric equation below, find $\frac{dy}{dx}$.

$$x = 3t^2 + 2t$$
$$y = \cos(t)$$
$$0 \le t \le 6$$

$$\frac{dy}{dx} = \frac{y'(t)}{x'(t)} = \frac{-\sin(t)}{6t + 2}$$