

Name: _____

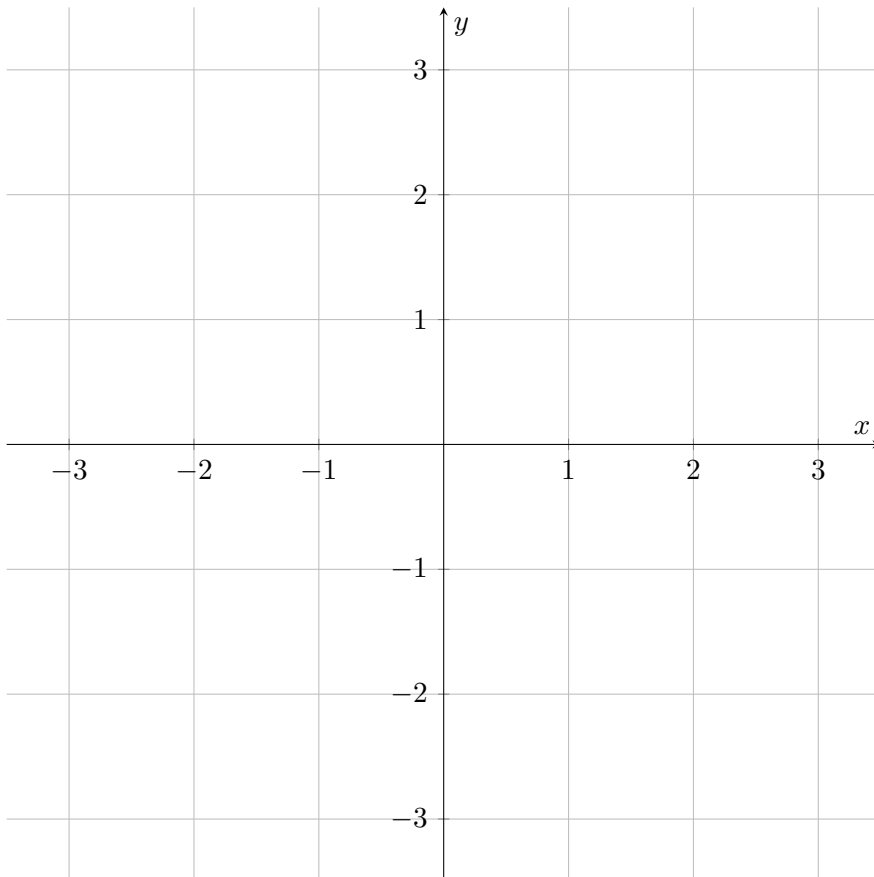
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1. Consider the curve defined by the parametric equations

$$x = e^t, \quad y = e^{-2t}.$$

(a) Eliminate the parameter to find a Cartesian equation of the curve.

(b) Sketch the curve and indicate with an arrow the direction in which the curve is traced as the parameter increases.



2. Plot and label these four points with given polar coordinates.

Point	(r, θ)
<i>A</i>	$(1, 5\pi/4)$
<i>B</i>	$(2, 3\pi)$
<i>C</i>	$(2, -2\pi/3)$
<i>D</i>	$(-3, 3\pi/4)$

