

KFUPM Term (151) Name \_\_\_\_\_

MATH 201 Quiz # 1 ID# \_\_\_\_\_ Section 02

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- 1) Sketch the graph of the following curve after eliminating the parameter. Indicate the direction.

$$x = 3 + 2 \cos t, \quad y = 1 + 2 \sin t, \quad \pi \leq t \leq 2\pi.$$

- 2) Find the area enclosed by the curve  $x = t^2 - 2t$ ,  $y = \sqrt{t}$  and y-axis.

KFUPM Term (151) Name \_\_\_\_\_

MATH 201 Quiz # 1 ID# \_\_\_\_\_ Section 07

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- 1) Sketch the graph of the following curve after eliminating the parameter. Indicate the direction.

$$x = \tan^2 \theta, \quad y = \sec \theta, \quad -\pi/2 < \theta < 0.$$

- 2) Find the exact length of the curve.

$$x = e^t + e^{-t}, \quad y = 5 - 2t, \quad 0 \leq t \leq 3.$$