

Name: Worcester

MAC 2312: Calculus II

Examination III

October 23, 2007

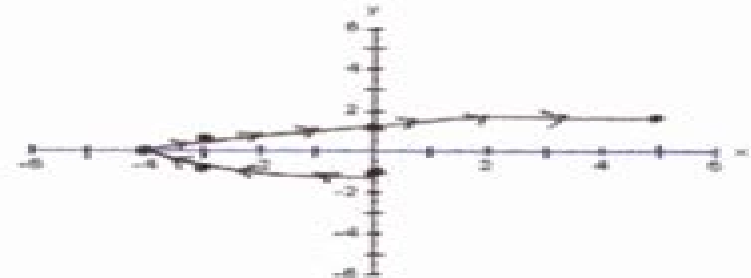
Instructor: Worcester

Answer each of the following questions. The point value for each question is indicated in parentheses. All necessary work should be shown. Answers without the supporting work, may receive no credit. All answers should be expressed exactly. Good Luck!

1. Sketch the curve by using parametric equations to plot points, on the given interval. Indicate the orientation of the curve. (4 points)

$$x = t^2 - 4; y = \frac{t}{2}; -2 \leq t \leq 3$$

t	x	y
-2	0	-1
-1	-3	-1/2
0	-4	0
1	-3	1/2
2	0	1
3	5	3/2



2. Eliminate the parameter to find a Cartesian equation of the curve. (4 points)

$$x = 3 \cos \theta; y = 4 \sin \theta; 0 \leq \theta \leq 2\pi$$

$$\cos \theta = \frac{x}{3}; \sin \theta = \frac{y}{4}$$

$$\Rightarrow \cos^2 \theta + \sin^2 \theta = 1$$

$$\Rightarrow \left(\frac{x}{3}\right)^2 + \left(\frac{y}{4}\right)^2 = 1$$

$$\Rightarrow \frac{x^2}{9} + \frac{y^2}{16} = 1 //$$

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