Math 1140F - Exam 5

Name: _____

Thursday, October 16, 2014
Time: 50 minutes
Instructor: Brittany Cuchta

Instructions:

- Do not open the exam until I say you may.
- All cell phones and other electronic noisemaking devices must be turned off or completely silenced (i.e., not on vibrate) for the duration of the exam.
- **No calculators** are allowed on the exam.
- The exam *must* be taken in pencil. Using a pen on the exam will result in the loss of points.
- Failure to follow directions specific to a problem will result in the loss of points.
- Circle or box your final answer where appropriate. Put your final answer in the provided space when available. Failure to do so will result in points being deducted.
- Show **all** work. Full credit will only be given if work is shown which **fully and clearly** justifies your answer. I reserve the right to not grade a problem which I cannot read.
- Answers must be exact (like $\sqrt{2}$), not approximate (like 1.414), unless a problem specifically indicates otherwise.
- All final answers must be simplified unless otherwise specified. **Rationalization is not required unless otherwise specified.**
- If you run out of room, use the back of the page and indicate this on the question.
- As always, you are expected to exhibit academic integrity during the exam.

Page:	1	Total
Points:	11	11
Score:		

1. (6 points) Identify each conic. No work is necessary. Your answer is either right or wrong and no partial credit will be awarded. Clearly circle your answer.

(a) $x^2 + 3x - 5y - 9 = 0$	ellipse	parabola	hyperbola	not a conic
(b) $2x^2 + 5y^2 - 4x - 7y - 3 = 0$	ellipse	parabola	hyperbola	not a conic
(c) $2x^2 - 3y^2 = 12$	ellipse	parabola	hyperbola	not a conic

2. (5 points) Select the function that best represents the ellipse. Clearly circle your answer.