**QUIZ NO. 2**

**PARABOLAS**

NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

SECTION: **G11-STEM2**

STUDENT ID: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

DATE SUBMITTED: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**NOTE:** Print out this document and write your answers on the spaces provided. Indicate solutions if necessary. Avoid erasures. Due date: 10/16/17, 10:30 AM

**Part One.** For every item, transform the equation into the standard form if necessary. Then, give the (a) orientation of the graph; (b) coordinates of its vertex; (c) coordinates of its foci; (d) equation of the directrix; and (e) axis of symmetry.

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**Part Two.** Determine the equation of the parabola in standard form given the conditions in every item.

1. Focus at , vertex at the origin.

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1. Vertex at , directrix is the line

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1. Focus is at the origin, directrix is the line

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