

Name: _____ Date: _____ Row: _____ Period: _____

NOTES SECTION 10.6: GRAPHING AND CLASSIFYING CONICS – DAY 1

STANDARD FORM OF EQUATIONS OF TRANSLATED CONICS

CIRCLE	
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	HORIZONTAL AXIS	VERTICAL AXIS
PARABOLA		
ELLIPSE		
HYPERBOLA		

EXAMPLE 1

Write an equation of the parabola whose vertex is at _____ and whose focus is at _____.

Identify the directrix.

YOUR TURN

Write an equation of the parabola whose vertex is at _____ and whose directrix is at _____.

Identify the focus.

EXAMPLE 2

Graph _____. Identify the center and radius.

YOUR TURN

Graph _____. Identify the center and radius.

EXAMPLE 3

Write an equation of the ellipse with foci at _____ and _____ and vertices at _____ and _____.

Identify the co-vertices.

YOUR TURN

Write an equation of the ellipse with foci at _____ and _____ and vertices at _____ and _____.

Identify the co-vertices.

EXAMPLE 4

Graph _____. Identify the vertices and foci.

YOUR TURN

Graph _____ . Identify the vertices and foci.