

PreCalculus Worksheet

Your Name: _____

I. Parabolas

	focus	directrix	vertex	equation
1.	(0,2)	$y = 0$		
2.	(0,1)		(0,-1)	
3.				$y = 3x^2$
4.				$2x^2 - 6y = 0$
5.	(3,5)		(3,1)	
6.				$y = -\frac{1}{4}x^2$
7.	(6,0)	$x = 0$		
8.				$x = y^2$
9.				$y = \frac{1}{10}x^2 - 4$

II. Ellipses

	vertices	major axis	minor axis	foci	equation
10.	(±2,0)		vert., length 2		
11.	(0, ±1)		horiz., length 1		
12.					$\frac{x^2}{9} + \frac{y^2}{16} = 1$
13.		horiz., length 3	vert., length 1		
14.	(±6,0)			(±4,0)	
15.	(0, ±10)			(0, ±7)	