Directrix: _____

Axis:

Name		Date	Period
DIRECT	ΓΙΟΝS: For #1-2, respond in the provided blar	nks.	
1.	A parabola has its vertex at $(4, -7)$ and directrix of $x = 2$. Identify the focus of this parabola.	2.	A parabola has its vertex at $(-2, -3)$ and focus at $(-5, -3)$. Identify the directrix of this parabola.
DIRECT		rihed naraho	alas in the provided blanks
3.	Focus (6, 2); Vertex (6, 7)	4.	Focus $(-2,4)$; Directrix $y = 6$
			
	<u>FIONS</u> : For #5-6, rewrite the equations in the , focus, directrix , and axis of symmetry for the		rm for parabolas. Then identify the
5.	$y^2 - 16x - 6y - 7 = 0$	6.	$x^2 - 12x + 4y + 28 = 0$
	Equation:		Equation:
	Vertex:		Vertex:
	Focus:		Focus:

Directrix: _____

Axis:

<u>DIRECTIONS</u>: For #7, write an equation for an ellipse with the given intercepts.

7. *x*-intercepts: ± 2 ; y-intercepts: ± 4

<u>DIRECTIONS</u>: For #8-9, write equations for ellipses with the given foci and sum of focal radii.

8. Foci: (-2,0),(2,0); Sum of focal radii = 6 **9.** Foci: (4,2),(4,8); Sum of focal radii = 16

<u>DIRECTIONS</u>: For #10-11, rewrite the equations in the standard form for ellipses. Then identify the center, direction of the major axis (horizontal or vertical), verticies, co-verticies, and foci.

- **10.** $3x^2 + 4y^2 36x + 32y + 124 = 0$ **11.** $4x^2 + y^2 + 16x 6y 11 = 0$

Equation: Equation: Center: Center: Major axis: Major axis: Verticies: Verticies: Co-verticies: Co-verticies: Foci: Foci: