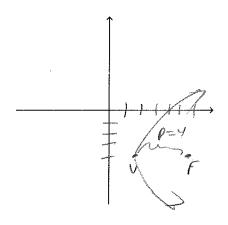
Period

#1. Find the equation of the parabola with focus (6, -4) and vertex (2, -4)

$$(y-k)^2 = 4p(x-h)$$

 $(y+4)^2 = 4(4)(x-2)$
 $(y+4)^2 = 16(x-2)$



#2. Graph the equation (label important features): $\frac{(y-1)^2}{9} - \frac{(x+2)^2}{4} = 1$

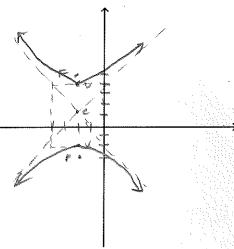
Center: (-2,1)

Vertices: (-2,4)(-7,-2)

Foci: (-2, 1+13)(-2, 1-13)

Asymptotes: $\frac{(9-1) = \frac{3}{2}(x+2)}{(y-1) = \frac{3}{2}(x+2)}$

hyperbola $a^{2}=9, a=3$ $b^{2}=4, b=2$ $c^{2}=a^{2}+b^{2}$ $c^{2}=f+y=13.$ $c=\sqrt{13}(a3.6)$



#3. Find an equation of the ellipse with major axis 10 units long and foci at (1, 0) and (1, -6)

$$C = 3$$

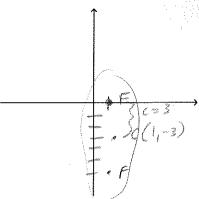
$$C = a^{2} - b^{2}$$

$$Q = 25 - b^{2}$$

$$b^{2} = 25 - 9$$

$$b^{2} = 16$$

$$\frac{(x-h)^2}{b^2} + \frac{(y-k)^2}{a^2} = 1$$





#4. Graph the equation (label important features): $\frac{(x+2)^2}{40} + \frac{(y-1)^2}{4} = 1$

Center:
$$(-2,1)$$

Foci:
$$\sqrt{-2}$$

Center:
$$(-2,1)$$

Vertices: $(5,1)(-9,1)$

Foci: $(-2+\sqrt{15},1)(-2-\sqrt{15},1)$
 $(-2+\sqrt{15},1)(-2-\sqrt{15},1)$

Eccentricity: $\frac{\sqrt{4\tau}}{7}$



#5. Put the equation in standard form. $8x = y^2 - 4y - 4$

Tell which conic is represented by the equation.

#6.
$$(6x)(6y) - 3x - 5y + 3 = 0$$
 Hye bols

#7.
$$\sqrt{-2x^2+3x}+4y-10=0$$

#7.
$$(-2x^2) + 3x + 4y - 10 = 0$$
 Parabola
#8. $(-4x)(-6y^2) - 3x + 2y - 4 = 0$ Hyperbola

#9.
$$(2x^2)-3x-2y-12=0$$

$$#10. (8x^2 + 8y^2 + 2y - 6 = 0)$$

#10.
$$(8x^2 + 8y^2 + 2y - 6 = 0)$$

#11.
$$12x^2 + 7y^2 + 3x + 4y + 6 = 0$$

$$v^{3} + 3x + 4y + 6 = 0$$

#12. Put the equation in standard form. $x^2 + 25y^2 - 6x + 100y + 84 = 0$

$$(x-3)^2 + 25(9+2)^2 = \frac{21}{25}$$

#13. Graph the equation (label important features)

$$(x+3)^2 = 8(y-1)$$

Vertex: (-3,1)

Focus: $\left(-3,3\right)$

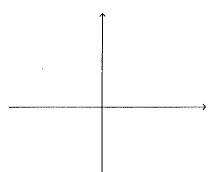
y-int (x-0)

Directrix: y=-1

(0+3)2=8(y-1) 9=84-8

#14. Find an equation of the hyperbola with vertices (-9, 0) and (5, 0) and foci (-10, 0) and (6, 0).

#1. Find the equation of the parabola with focus (6, -4) and vertex (2, -4)



#2. Graph the equation (label important features): $\frac{(y-1)^2}{9} - \frac{(x+2)^2}{4} = 1$

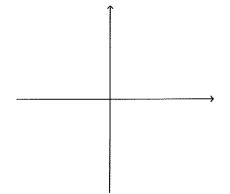
Center: ____

Vertices:

Foci: _____

Asymptotes:

#3. Find an equation of the ellipse with major axis 10 units long and foci at (1, 0) and (1, -6)



#4. Graph the equation (label important features): $\frac{(x+2)^2}{49} + \frac{(y-1)^2}{4} = 1$

Center:	

Vertices:

Foci:

Eccentricity:

#5. Put the equation in standard form.
$$8x = y^2 - 4y - 4$$

Tell which conic is represented by the equation.

#6.
$$6x^2 - 6y^2 - 3x - 5y + 3 = 0$$

#7.
$$-2x^2 + 3x + 4y - 10 = 0$$

#8.
$$-4x^2 + 6y^2 - 3x + 2y - 4 = 0$$

#9.
$$2x^2 - 3x - 2y - 12 = 0$$

#10.
$$8x^2 + 8y^2 + 2y - 6 = 0$$

#11.
$$12x^2 + 7y^2 + 3x + 4y + 6 = 0$$

#12. Put the equation in standard form.
$$x^2 + 25y^2 - 6x + 100y + 84 = 0$$

#13. Graph the equation (label important features)
$$(x+3)^2 = 8(y-1)$$

Vertex: _____

Focus: _____

Directrix:

#14. Find an equation of the hyperbola with vertices (-9, 0) and (5, 0) and foci (-10, 0) and (6, 0).