

WS 2.8: Classifying Conics

Name _____

Per _____ Date _____

Vocabulary

1. The general 2nd Degree Equation for ALL conic sections is

_____.

2. The standard forms of the equations of each type of conic section are:

(A) Circle

(B) Parabola (2)

(C) Ellipse

(D) Hyperbola (2)

Exercises

(A) Classify each type of conic section based on its general formt. (B) Write the equation in standard form.

1. $9x^2+4y^2-18x+16y-119=0$

2. $x^2+y^2-4x-6y-23=0$

3. $16x^2-9y^2+32x+54y-209=0$

4. $x^2+4x-8y+20=0$

$$5. y^2+12x+4y+28=0$$

$$6. 4x^2+25y^2+16x+250y+541=0$$

$$7. x^2+y^2+2x-6y=0$$

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

$$9. 9x^2+4y^2-90x+8y+228=0$$

$$10. x^2-6x-2y+7=0$$