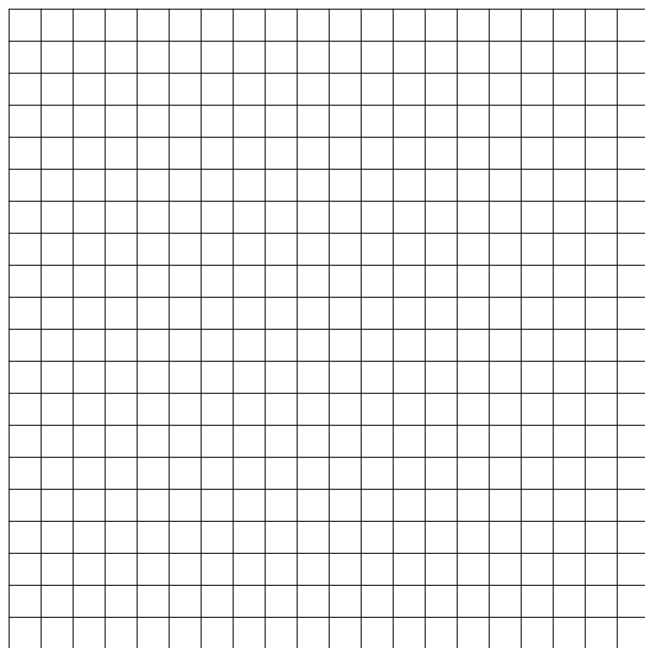
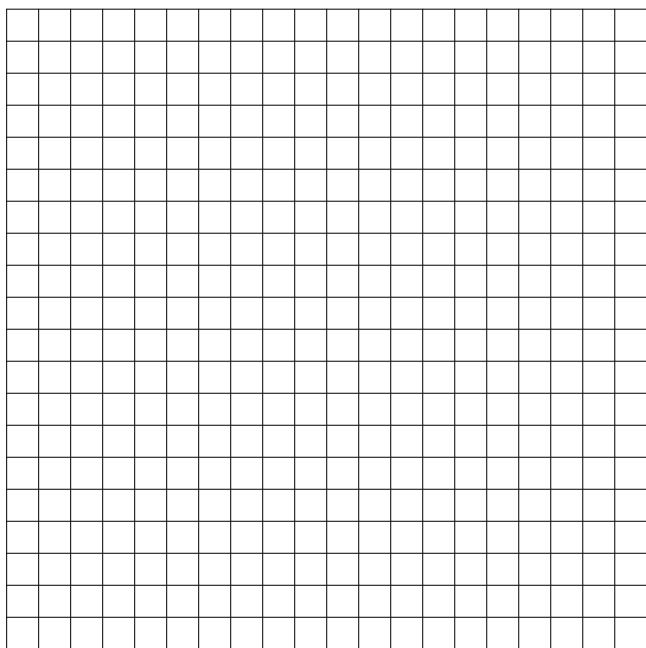


Algebra 2 Worksheet #7 Unit 7 page 1 _____

Identify each equation as that of a circle, ellipse, hyperbola, or parabola. Express the equation in standard form and sketch its graph. Show your work neatly organized.

1. $4x^2 - 9y^2 - 8x - 54y - 113 = 0$

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

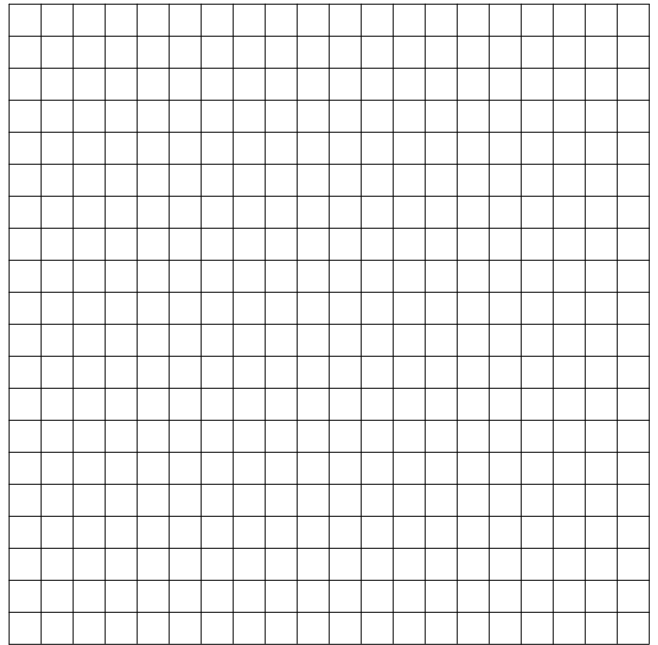
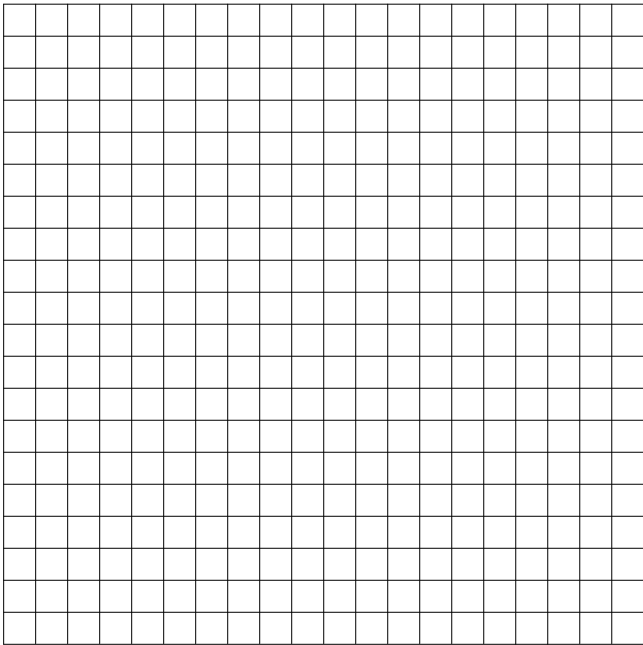


Algebra 2 Worksheet #7 Unit 7 page 2

Identify each equation as that of a circle, ellipse, hyperbola, or parabola. Express the equation in standard form and sketch its graph. Show your work neatly organized.

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

4. $x^2 + 2x + 4y - 11 = 0$

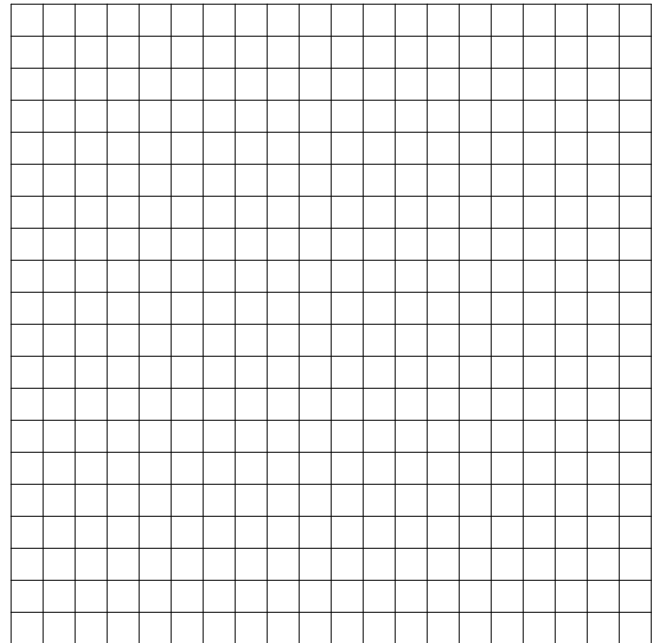
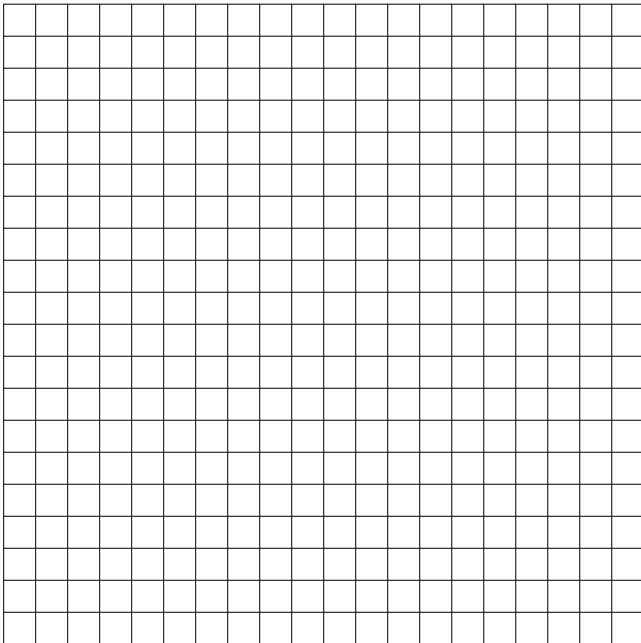


Algebra 2 Worksheet #7 Unit 7 page 3

Identify each equation as that of a circle, ellipse, hyperbola, or parabola. Express the equation in standard form and sketch its graph. Show your work neatly organized.

5. $25x^2 + 9y^2 + 100x - 54y - 44 = 0$

6. $4x^2 + 4y^2 - 4x + 20y + 17 = 0$



Algebra 2 Worksheet #7 Unit 7 page 4

Identify each equation as that of a circle, ellipse, hyperbola, or parabola. Express the equation in standard form and sketch its graph. Show your work neatly organized.

7. $16x^2 - 9y^2 + 64x + 18y + 199 = 0$

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

