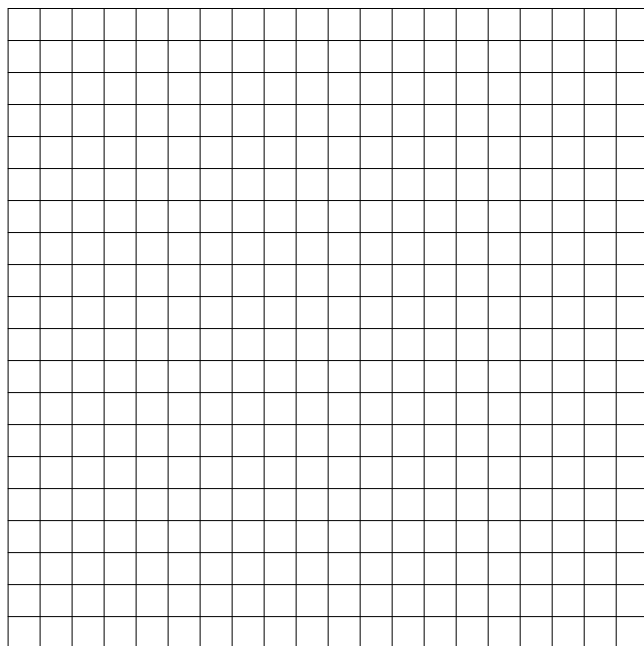
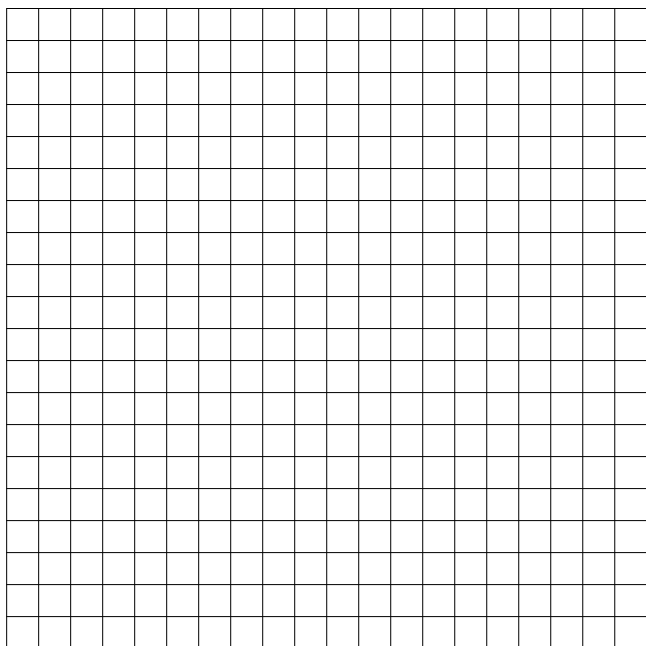


Algebra II Worksheet #8 Unit 7 page 1 _____

Identify each of the following equations as that of a circle, an ellipse, a hyperbola, or a parabola. Then write the equation in standard form and sketch its graph.

1. $9x^2 + 4y^2 - 54x + 8y + 49 = 0$

2. $y^2 + 4x - 6y + 13 = 0$

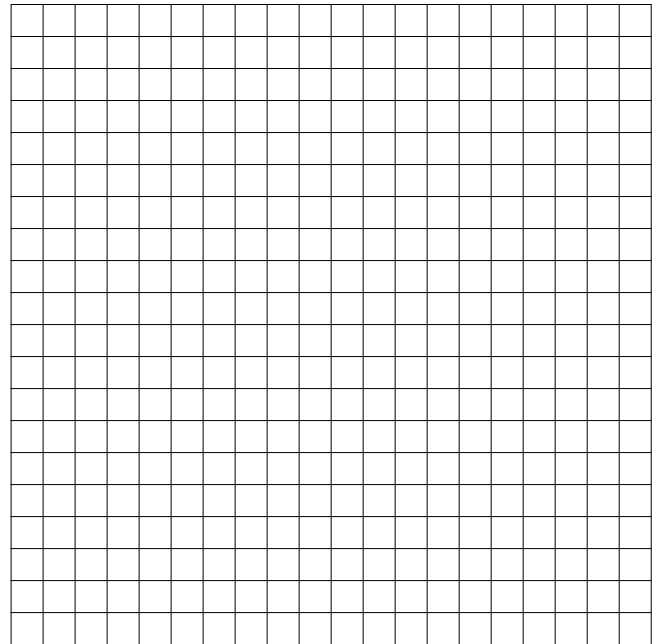
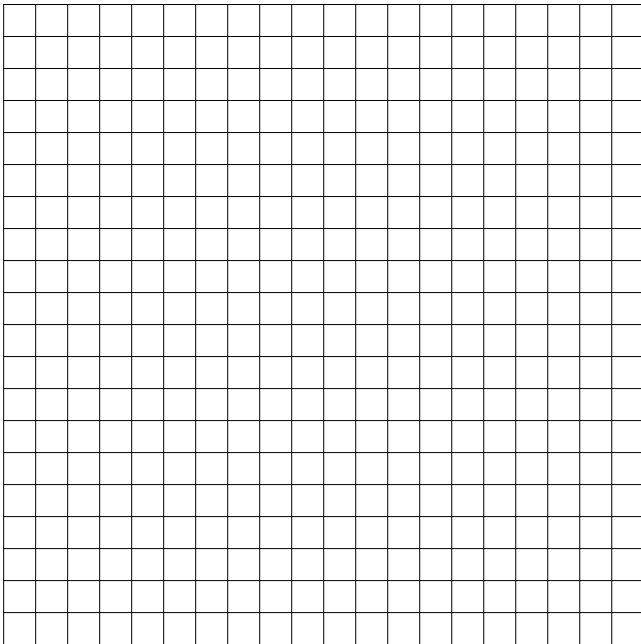


Algebra II Worksheet #8 Unit 7 page 2

Identify each of the following equations as that of a circle, an ellipse, a hyperbola, or a parabola. Then write the equation in standard form and sketch its graph.

3. $9x^2 - 16y^2 + 36x - 108 = 0$

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

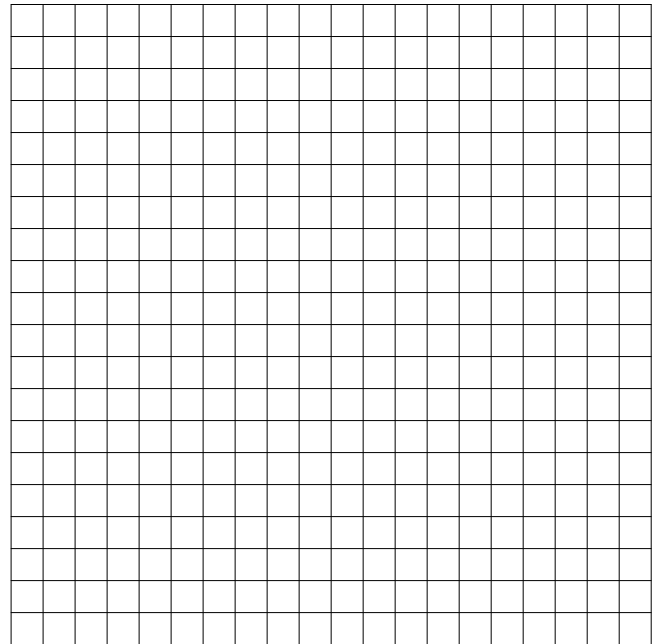
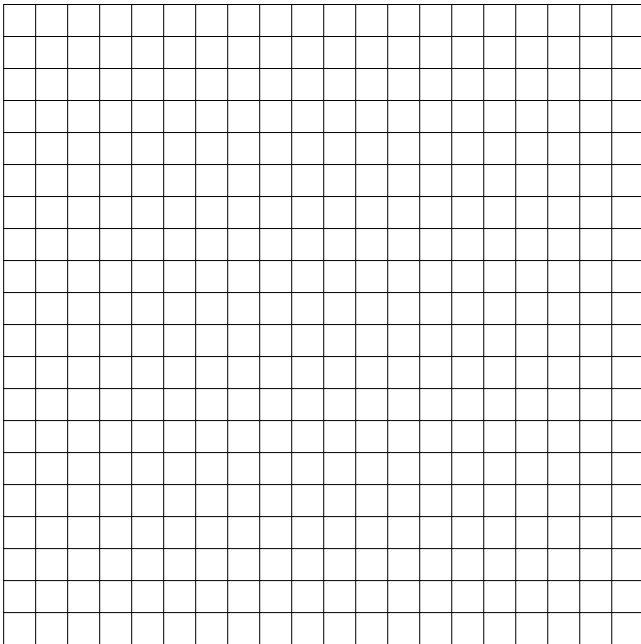


Algebra II Worksheet #8 Unit 7 page 3

Identify each of the following equations as that of a circle, an ellipse, a hyperbola, or a parabola. Then write the equation in standard form and sketch its graph.

5. $4x^2 - y^2 - 8x - 2y + 19 = 0$

6. $4x^2 + 4y^2 + 8x - 21 = 0$



Algebra II Worksheet #8 Unit 7 page 4

Identify each of the following equations as that of a circle, an ellipse, a hyperbola, or a parabola. Then write the equation in standard form and sketch its graph.

7. $x^2 + 4y^2 - 2x + 24y + 21 = 0$

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

