

Topic 7.6
Conic Sections
Homework

Name: _____

Date: _____

Write each equation in standard form. State whether the graph of the equation is a parabola, a circle, a hyperbola, or an ellipse.

1) $2x^2 + 4y^2 + 8x - 24y = 8$

2) $8y^2 + 4x + 40y = 12$

3) $x^2 + 6 + 4x + 8y = 11 - y^2$

4) $6x^2 - 2 - 8y = 4y^2 + 12x$

5) $20 - 5x^2 - 5y^2 = -50x - 60y$

6) $7x^2 - 8y^2 = 28x - 287$

7) $4x + y + 12 = x^2$

8) $6x^2 - 16y - 8 = 20 - 2y^2$