

Advanced Algebra

Conics: Circles & Ellipses – Homework

Put each of the following equations into standard form and graph the circle or ellipse. When applicable, label the center, foci or four endpoints of the conic.

1. $4x^2 + 9y^2 + 8x - 90y + 193 = 0$

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

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

4. $25x^2 + 4y^2 - 200x + 300 = 0$

5. $x^2 + y^2 - 6x + 9y + 3 = 0$

6. $4x^2 + y^2 - 40x + 96 = 0$