

Classify each conic as a circle, parabola, ellipse or hyperbola. Then complete the square to write the conic in standard form.

1.) $-x^2 + 10x + y - 21 = 0$

2.) $-9x^2 + y^2 - 72x - 153 = 0$

3.) $4x^2 + 4y^2 - 20x - 32y + 81 = 0$

4.) $y^2 + x + 10y + 26 = 0$

5.) $x^2 + 4y^2 + 6x - 8y + 9 = 0$

6.) $-9x^2 + 25y^2 - 100y - 125 = 0$

7.) $x^2 + y^2 + 6x - 2y + 9 = 0$

8.) $9x^2 + 4y^2 - 54x - 8y - 59 = 0$