

Identifying Conic Sections Quiz A

State whether each equation is a circle, parabola, ellipse, or a hyperbola.

1. _____ $x^2 + y^2 - 2x - 2y = 5$
2. _____ $4x^2 - 2y^2 + 3x - 5 = 0$
3. _____ $4x^2 - 2y + 3x = 0$
4. _____ $2x^2 + 2y - 3x = 7$
5. _____ $7x^2 - 2y + 4y^2 = 0$
6. _____ $3x^2 - 2y + 4x = 5 - 3y^2$
7. _____ $5y^2 + 2x = -4x^2$
8. _____ $3x^2 - 3y^2 = 5$
9. _____ $-x^2 - y^2 + 2x - 3y = -7$
10. _____ $x^2 = y$
11. _____ $x^2 = -y^2 + 9$
12. _____ $x^2 - 2y^2 + 5x - 7y = 0$
13. _____ Foci: $(\pm 3, 0)$, Vertices: $(\pm 5, 0)$
14. _____ Foci: $(0, \pm 8)$, Vertices: $(0, \pm 6)$
15. _____ Vertex: $(0, 4)$, Directrix: $x = 6$