

Classify each conic section.

1) $x^2 + y^2 = 25$
Circle

2) $\frac{x^2}{16} + \frac{y^2}{9} = 1$
Ellipse

3) $x - (y + 4)^2 = 2$
Parabola

4) $y = (x + 4)^2 + 3$
Parabola

Classify each conic section and write its equation in standard form.

5) $-x^2 + 6x + y = 4$ with
Parabola
 $x = 3 + (y - 4)^2$

6) $x^2 + (x + y + 3) = 0$
Parabola
 $x = -y + 3 + y^2$

7) $-4x^2 + y^2 - 8x + 6y = 0$
Ellipse
 $\frac{(x + 1)^2}{1} + \frac{(y - 3)^2}{4} = 1$

8) $-4x^2 + y^2 - 8x + 6y = 0$
Hyperbola
 $\frac{(x + 1)^2}{1} - \frac{(y - 3)^2}{4} = 1$

9) $x^2 + y^2 = 25$
Circle

10) $x = y^2$
Parabola

11) $\frac{x^2}{16} + \frac{y^2}{9} = 1$
Ellipse

12) $x + 1 = (y + \frac{1}{2})^2 + 1$
Parabola

13) $-2y^2 + x - 20y + 40 = 0$
Parabola
 $x = 20y - 4y^2 + 4$

14) $x^2 + y^2 + 6x + 4y = 0$
Circle
 $(x + 3)^2 + (y + 2)^2 = 5$

15) $-x^2 + 4y^2 - 6x + 20y + 10 = 0$
Hyperbola
 $\frac{(x + 3)^2}{9} - \frac{(y + 5)^2}{4} = 1$

16) $-x^2 + x + 4y - 4 = 0$
Parabola
 $x = 4y - 4 + y^2$

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RJ Shavelson



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