

## CLASSIFYING CONIC SECTIONS

Date \_\_\_\_\_ Period \_\_\_\_\_

**Classify each conic section.**

1)  $y^2 + 2x - 8y + 12 = 0$

2)  $9x^2 + y^2 - 18x - 2y - 26 = 0$

3)  $x^2 + y^2 + 8x + 6y + 16 = 0$

4)  $16x^2 - 25y^2 - 50y - 425 = 0$

5)  $4x^2 + 25y^2 - 16x - 84 = 0$

6)  $x^2 - 9y^2 + x + 63y - 119 = 0$

7)  $16x^2 + 25y^2 + 32x - 384 = 0$

8)  $x^2 + y^2 + 6x + 8y + 18 = 0$

9)  $7y^2 + x + 14y + 7 = 0$

10)  $y^2 + x - 12y + 36 = 0$

11)  $-16x^2 + 9y^2 + 32x - 18y - 151 = 0$

12)  $25x^2 - 9y^2 - 100x - 125 = 0$

13)  $4x^2 + y^2 + 8x + 2y - 31 = 0$

14)  $x^2 + y^2 + 8x - 6y + 24 = 0$