

## Conic Sections

Name the curve defined by each equation.

1)  $x^2 + y^2 = 16$

12)  $2x^2 = 5 + y^2$

2)  $2x^2 + y^2 = 16$

13)  $x = y^2 - 9$

3)  $2x^2 - y^2 = 16$

14)  $y = \frac{7}{x}$

4)  $2x^2 - y = 16$

15)  $y = x^2 - 5$

5)  $4x^2 + y^2 = 25$

16)  $y^2 = 20 - 2x^2$

6)  $4y^2 + x^2 = 25$

17)  $x^2 + y^2 - 17 = 0$

7)  $\frac{x^2}{4} + \frac{y^2}{9} = 1$

18)  $3x - y = 7$

8)  $3x^2 = 5 - 3y^2$

19)  $x = \frac{y}{100}$

9)  $\frac{y^2}{16} - \frac{x^2}{25} = 1$

20)  $\frac{x^2}{4} + \frac{y^2}{4} = 1$

10)  $x^2 - 1 = 2x + 2y$

21)  $2x^2 - 4 = y + x$

11)  $xy = -2$

22)  $3y^2 + 5x^2 = 30$