

## Converting from standard form to general form

**Use the information provided to write the general conic form equation of each circle.**

1)  $(x - 11)^2 + (y - 14)^2 = 8$

2)  $(x - 2)^2 + (y - 13)^2 = 25$

3)  $(x - 3)^2 + (y + 12)^2 = 1$

4)  $(x + 11)^2 + (y + 9)^2 = 25$

5)  $(x + 9)^2 + (y + 13)^2 = 17$

6)  $(x + 5)^2 + (y + 15)^2 = 4$

7)  $(x - 11)^2 + (y - 7)^2 = 42$

8)  $(x + 2)^2 + (y + 7)^2 = 69$

9)  $x^2 + (y - 7)^2 = 65$

10)  $(x + 2)^2 + (y + 14)^2 = 25$

11)  $(x + 4)^2 + (y + 1)^2 = 4$

12)  $(x + 14)^2 + (y + 10)^2 = 25$

13)  $(x + 2)^2 + (y - 9)^2 = 77$

14)  $(x + 14)^2 + (y - 16)^2 = 1$

15)  $(x - 12)^2 + (y + 11)^2 = 36$

16)  $(x - 6)^2 + (y - 3)^2 = 49$

## Converting from standard form to general form

**Use the information provided to write the general conic form equation of each circle.**

1)  $(x - 11)^2 + (y - 14)^2 = 8$

2)  $(x - 2)^2 + (y - 13)^2 = 25$

$x^2 + y^2 - 22x - 28y + 309 = 0$

$x^2 + y^2 - 4x - 26y + 148 = 0$

3)  $(x - 3)^2 + (y + 12)^2 = 1$

4)  $(x + 11)^2 + (y + 9)^2 = 25$

$x^2 + y^2 - 6x + 24y + 152 = 0$

$x^2 + y^2 + 22x + 18y + 177 = 0$

5)  $(x + 9)^2 + (y + 13)^2 = 17$

6)  $(x + 5)^2 + (y + 15)^2 = 4$

$x^2 + y^2 + 18x + 26y + 233 = 0$

$x^2 + y^2 + 10x + 30y + 246 = 0$

7)  $(x - 11)^2 + (y - 7)^2 = 42$

8)  $(x + 2)^2 + (y + 7)^2 = 69$

$x^2 + y^2 - 22x - 14y + 128 = 0$

$x^2 + y^2 + 4x + 14y - 16 = 0$

9)  $x^2 + (y - 7)^2 = 65$

10)  $(x + 2)^2 + (y + 14)^2 = 25$

$x^2 + y^2 - 14y - 16 = 0$

$x^2 + y^2 + 4x + 28y + 175 = 0$

11)  $(x + 4)^2 + (y + 1)^2 = 4$

12)  $(x + 14)^2 + (y + 10)^2 = 25$

$x^2 + y^2 + 8x + 2y + 13 = 0$

$x^2 + y^2 + 28x + 20y + 271 = 0$

13)  $(x + 2)^2 + (y - 9)^2 = 77$

14)  $(x + 14)^2 + (y - 16)^2 = 1$

$x^2 + y^2 + 4x - 18y + 8 = 0$

$x^2 + y^2 + 28x - 32y + 451 = 0$

15)  $(x - 12)^2 + (y + 11)^2 = 36$

16)  $(x - 6)^2 + (y - 3)^2 = 49$

$x^2 + y^2 - 24x + 22y + 229 = 0$

$x^2 + y^2 - 12x - 6y - 4 = 0$