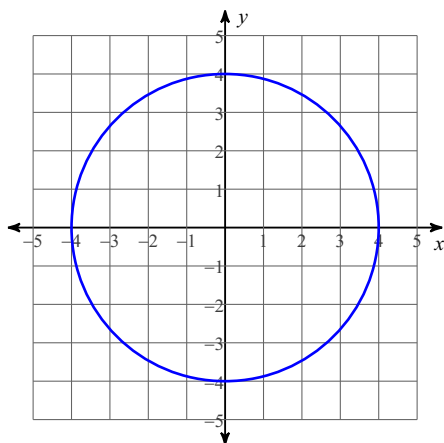


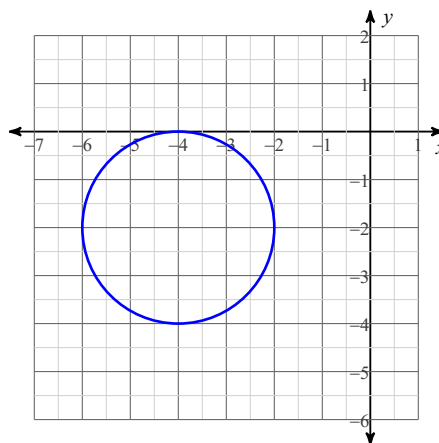
Conic Sections - CIRCLES

Use the information provided to write the standard form equation of each circle.

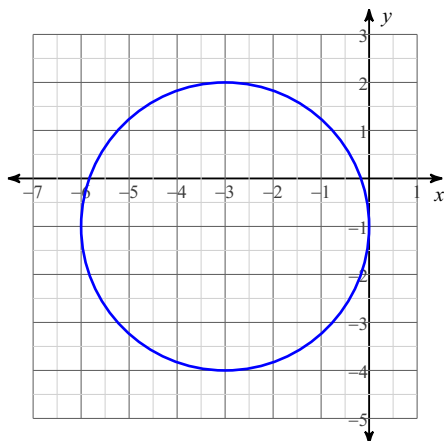
1)



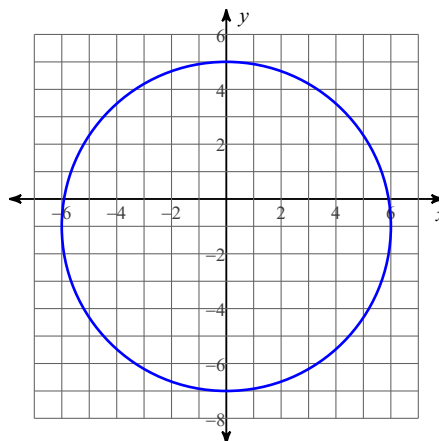
2)



3)



4)



5) Center: $(16, 15)$
Radius: 2

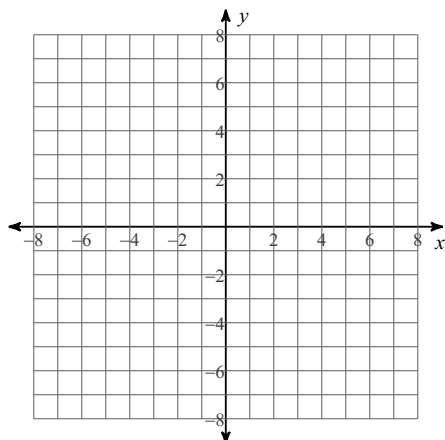
6) Center: $\left(-12, \frac{5}{2}\right)$
Radius: $3\sqrt{5}$

7) Center: $(-5, 15)$
Radius: $\sqrt{15}$

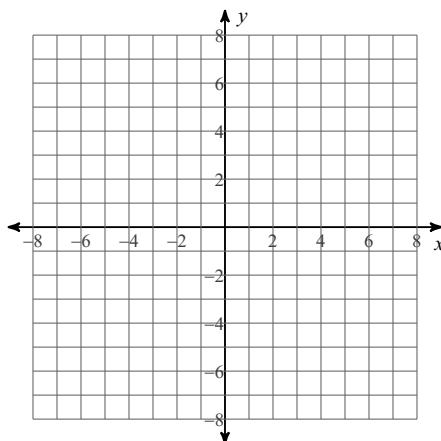
8) Center: $(-12, -16)$
Radius: $\sqrt{6}$

Identify the center and radius of each. Then sketch the graph.

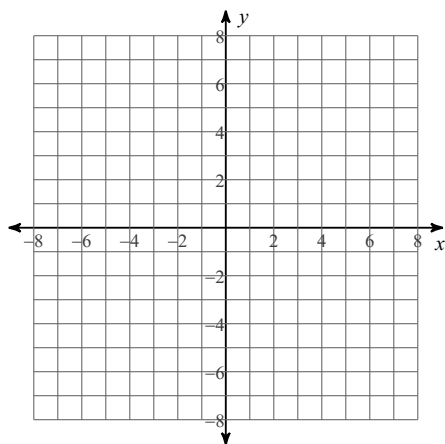
9) $x^2 + y^2 = 16$



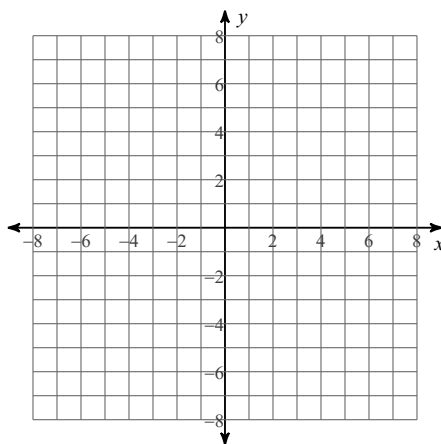
10) $(x - 3)^2 + \left(y - \frac{7}{2}\right)^2 = 9$



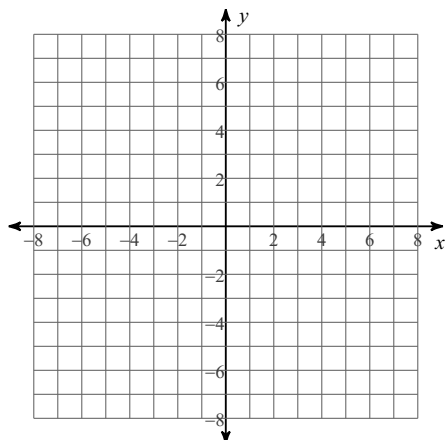
11) $(x - 4)^2 + (y - 2)^2 = 4$



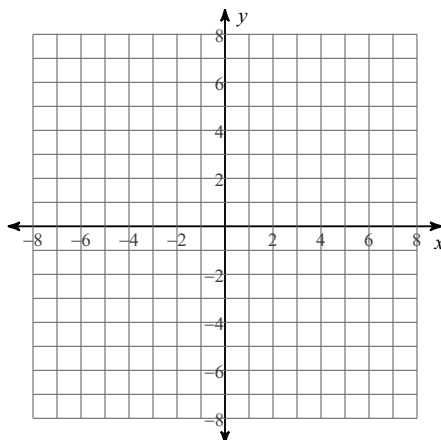
12) $(x + 1)^2 + (y + 1)^2 = 25$



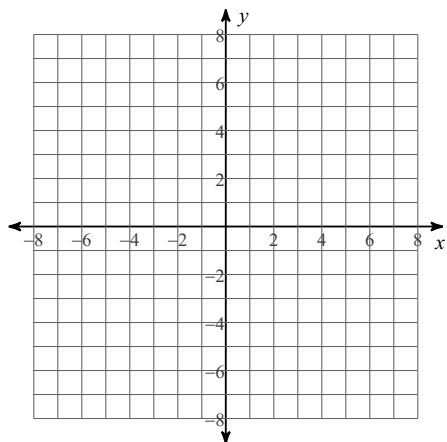
13) $(x + 2)^2 + y^2 = 22$



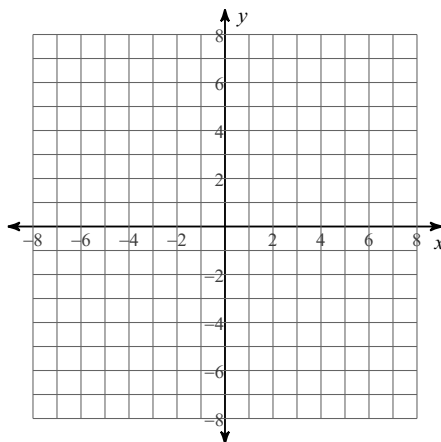
14) $(x - 3)^2 + (y + 2)^2 = 4$



15) $(x - 3)^2 + y^2 = 13$

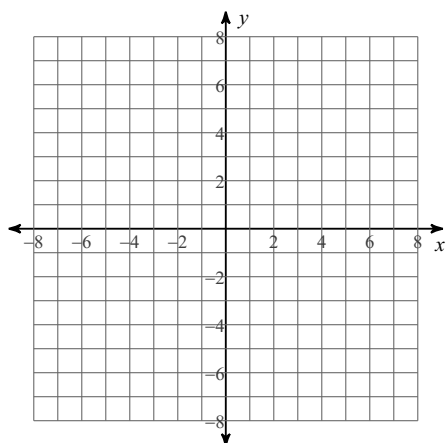


16) $(x - 3)^2 + (y + 4)^2 = 9$

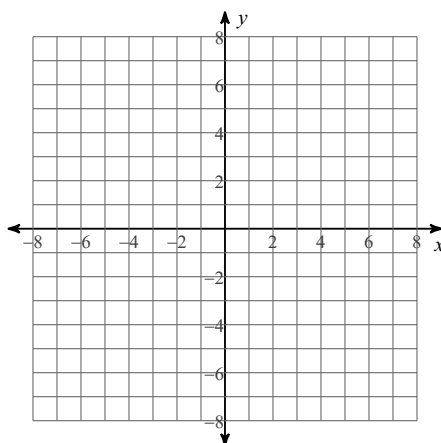


Rewrite the equation of each circle in standard form. then sketch the graph.

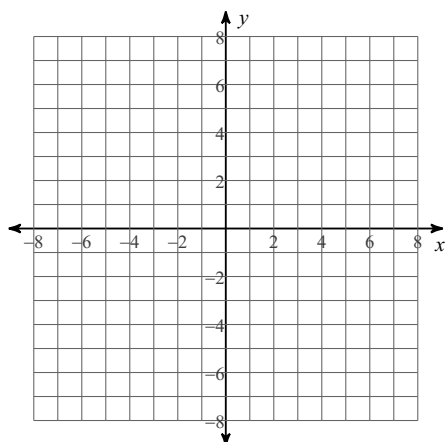
17) $x^2 + y^2 + 8x - 8y + 23 = 0$



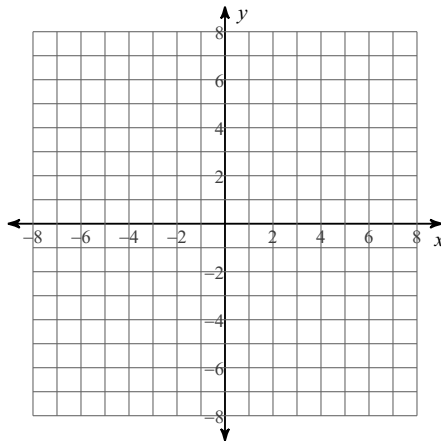
18) $x^2 + y^2 + 6x - 2y + 1 = 0$



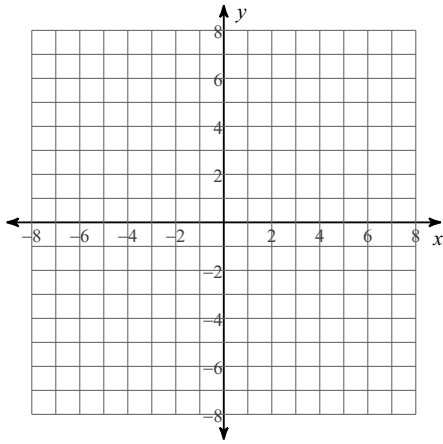
19) $x^2 + y^2 - 2x\sqrt{15} - 2y\sqrt{10} + 18 = 0$



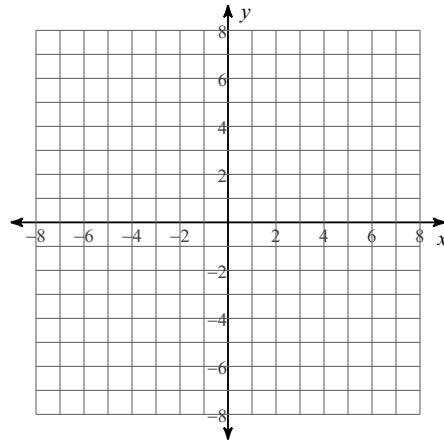
20) $x^2 + y^2 + 2x + 6y + 1 = 0$



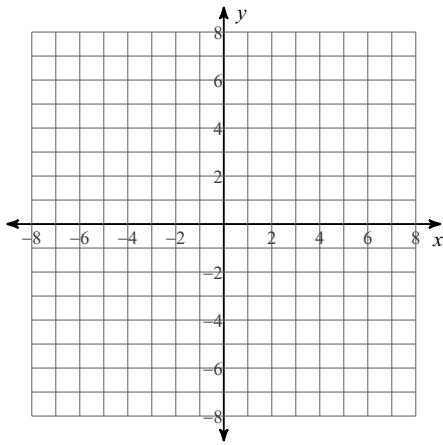
21) $x^2 + y^2 + 8x + 13 = 0$



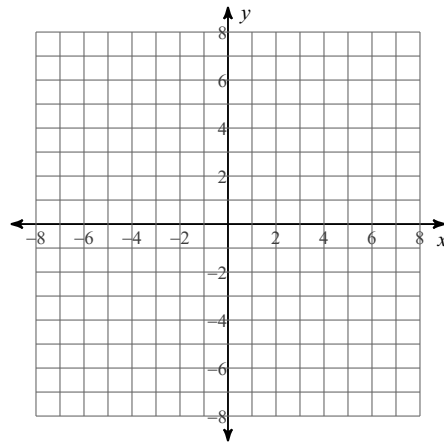
22) $x^2 + y^2 - 4x - 6y - 3 = 0$



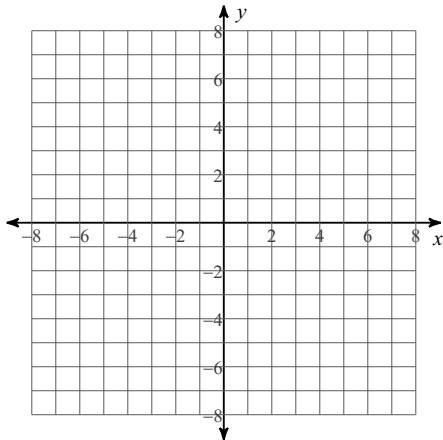
23) $x^2 + y^2 - 6x - 2y + 9 = 0$



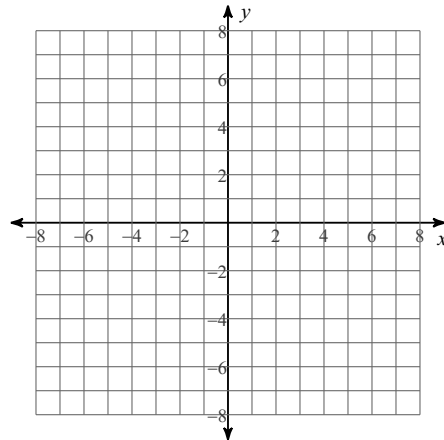
24) $x^2 + y^2 + 2y - 24 = 0$



25) $x^2 + y^2 + 4x - 2y - 11 = 0$



26) $x^2 + y^2 - 16 = 0$



Answers to Conic Sections - CIRCLES (ID: 1)

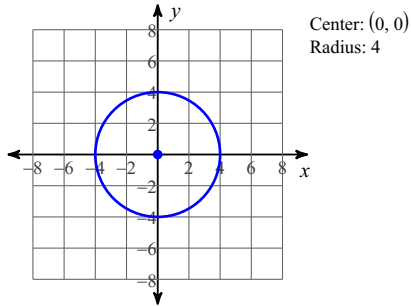
1) $x^2 + y^2 = 16$

3) $(x + 3)^2 + (y + 1)^2 = 9$

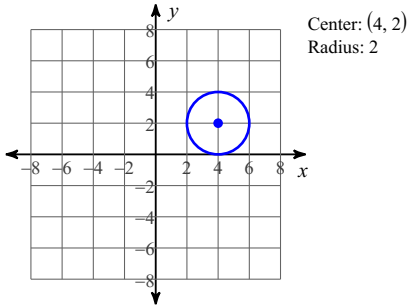
5) $(x - 16)^2 + (y - 15)^2 = 4$

7) $(x + 5)^2 + (y - 15)^2 = 15$

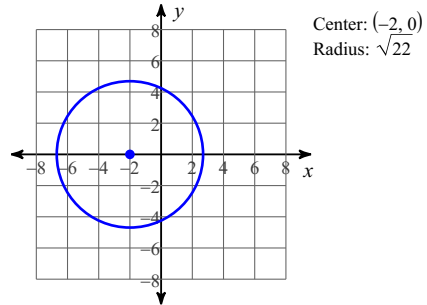
9)



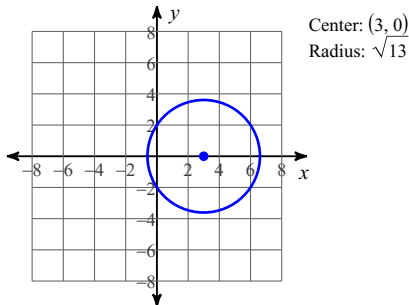
11)



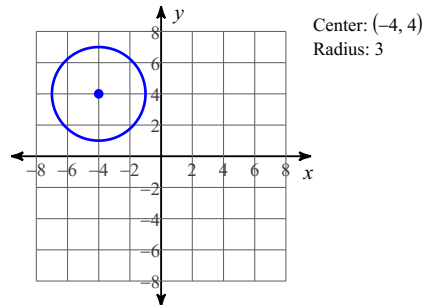
13)



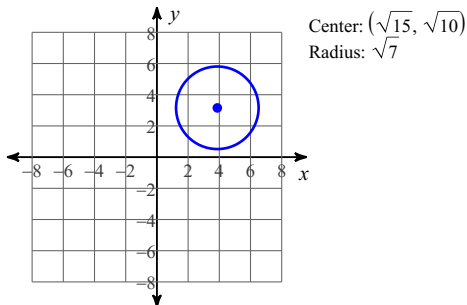
15)



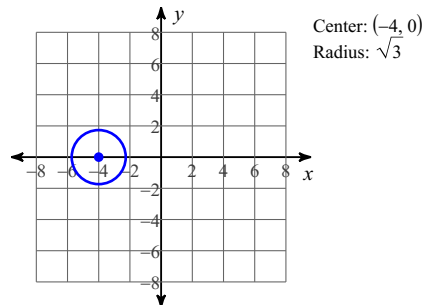
17)



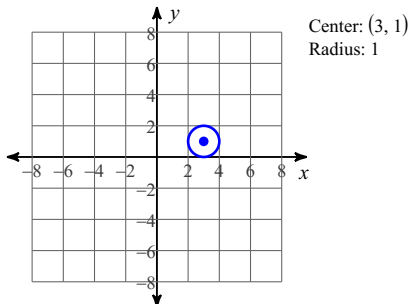
19)



21)



23)



25)

