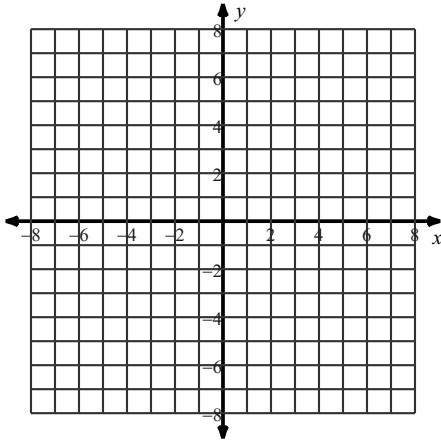


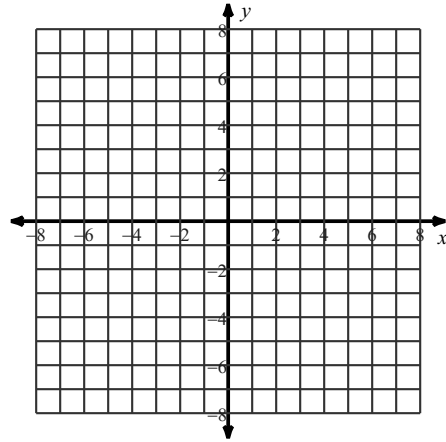
# Graphing Circles 1 (GC1)

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

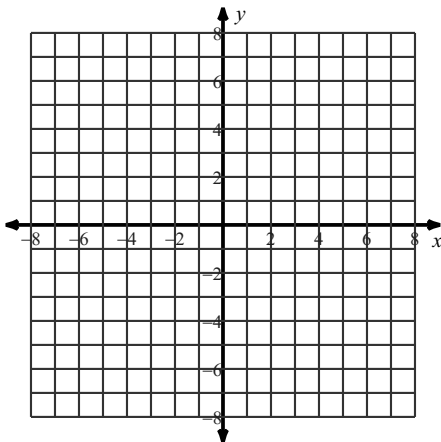
1)  $x^2 + y^2 + 2x + 6y - 6 = 0$



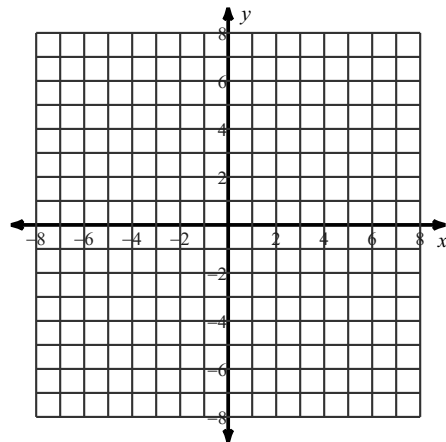
2)  $x^2 + y^2 - 2x - 4y + 4 = 0$



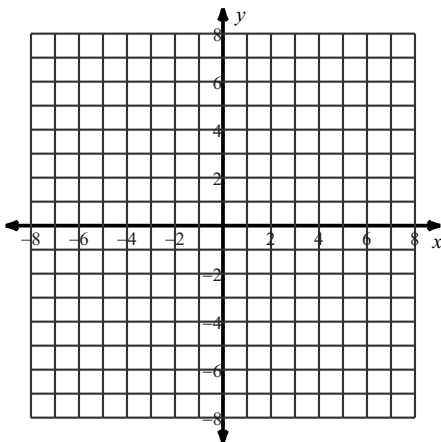
3)  $x^2 + y^2 + 8x + 8y + 31 = 0$



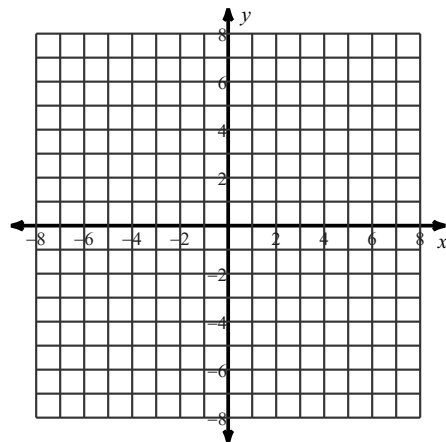
4)  $x^2 + y^2 + 2x - 4y - 14 = 0$



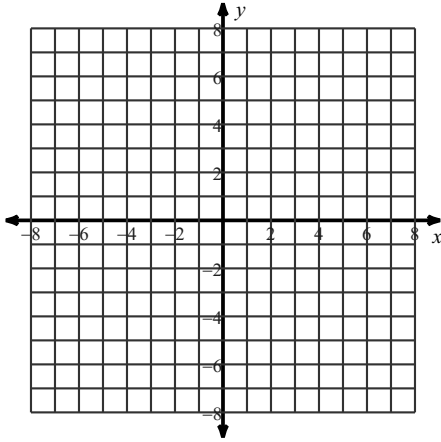
5)  $x^2 + y^2 - 8x + 8y + 25 = 0$



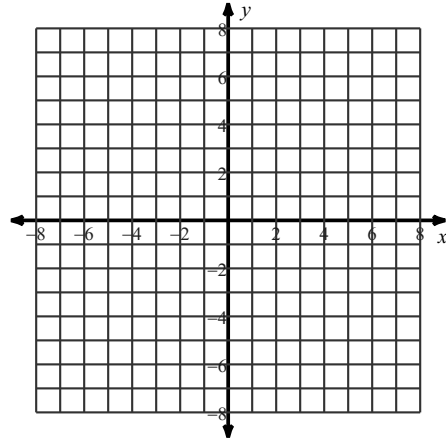
6)  $x^2 + y^2 - 2y - 25 = 0$



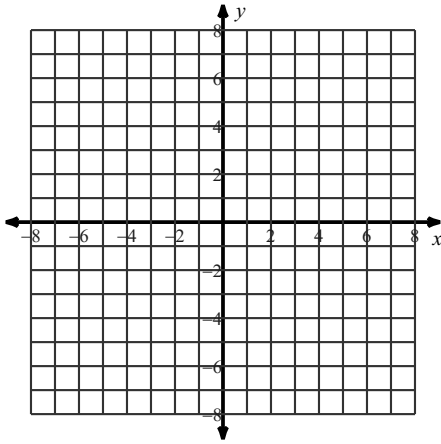
7)  $x^2 + y^2 - 6x + 2y + 9 = 0$



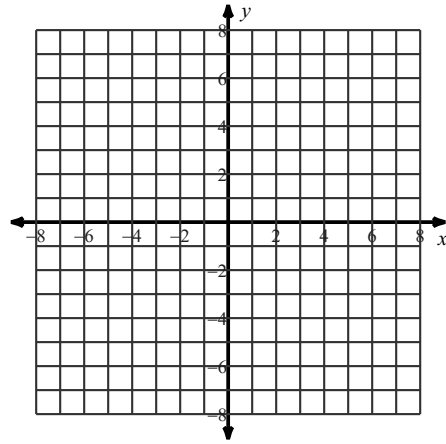
8)  $x^2 + y^2 + 8x - 2y + 8 = 0$



9)  $x^2 + y^2 - 4x - 1 = 0$

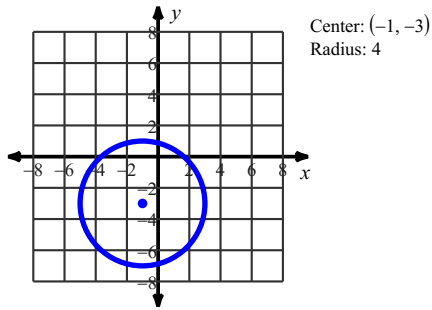


10)  $x^2 + y^2 - 6x + 2y + 6 = 0$

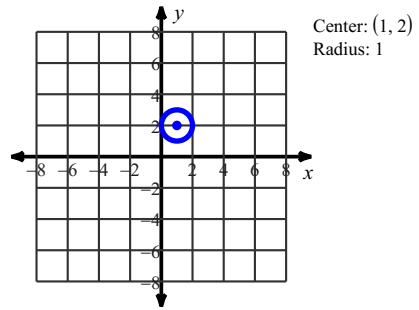


# Answers to Graphing Circles 1 (GC1)

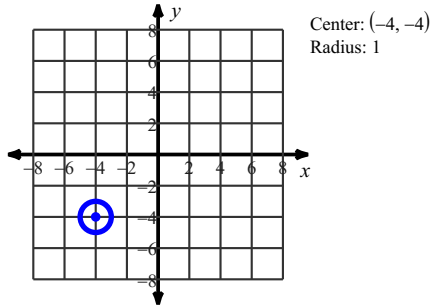
1)



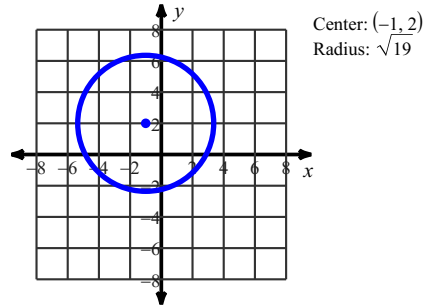
2)



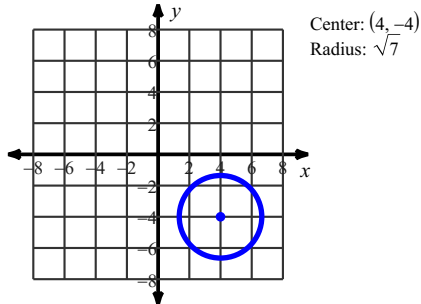
3)



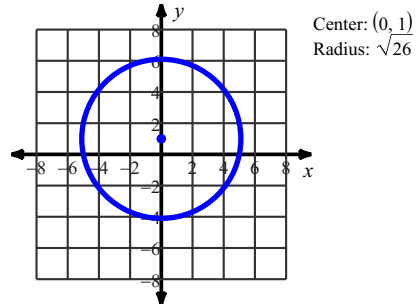
4)



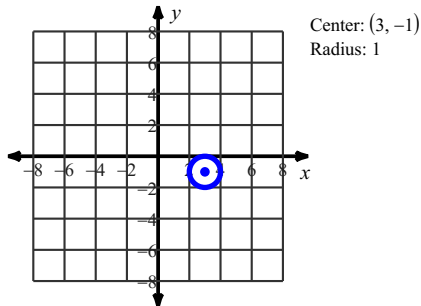
5)



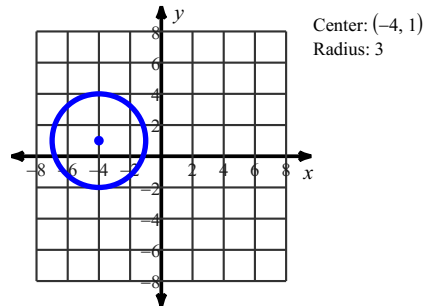
6)



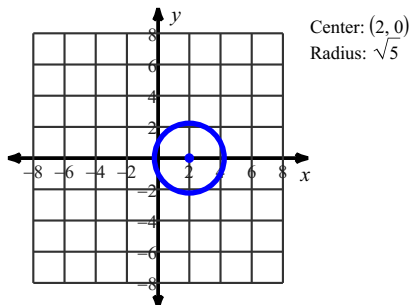
7)



8)



9)



10)

