

## Rewriting circle equations to graphing form

**Practice: C-Level**

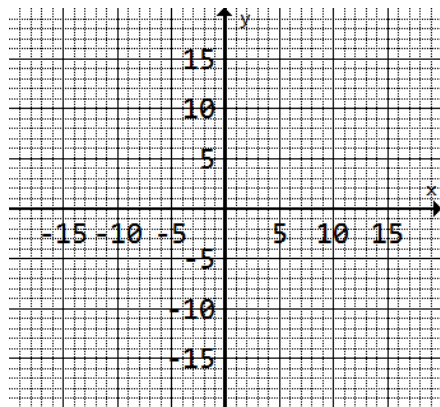
1. Rewrite the circle equations in graphing form, and then find the center and the radius of the circle

a) $x^2 - 10x + 25 + y^2 + 4y + 4 = 100$	Center:    Radius:
b) $x^2 + 8x + 16 + y^2 - 20y + 100 = 4$	Center:    Radius:
c) $x^2 - 22x + 121 + y^2 - 2y + 1 = 25$	Center:    Radius:
d) $x^2 - 20x + 100 + y^2 - 10y + 25 = 121$	Center:    Radius:

2. Graph each circle.

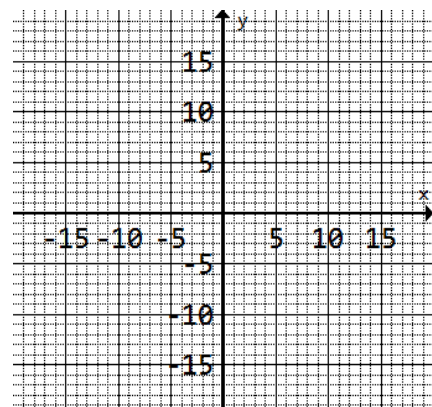
a)  $x^2 + 8x + 16 + y^2 + 20y + 100 = 25$

b)  $x^2 - 20x + 100 + y^2 - 10y + 25 = 81$



Center:

Radius



Center:

Radius

