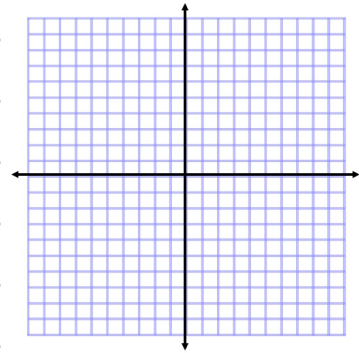
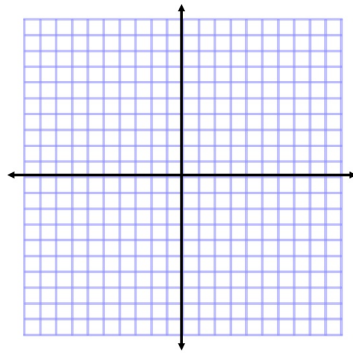
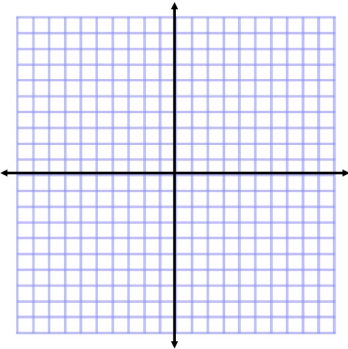


Name:
Period:
Date:

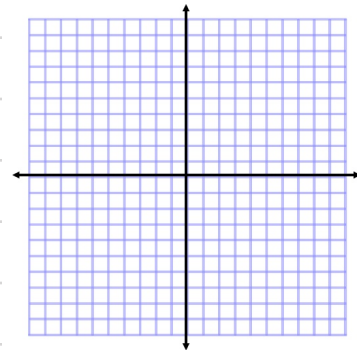
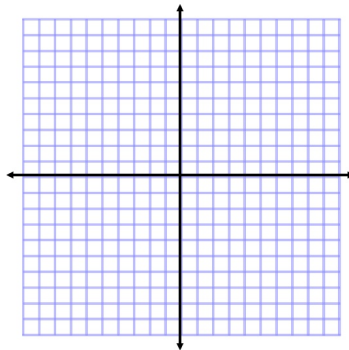
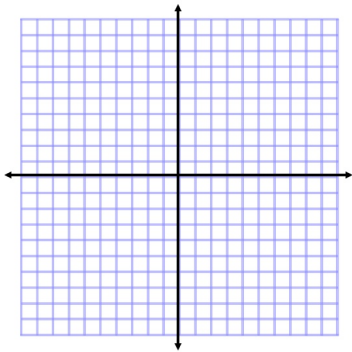
Circles!

graph each circle

① $(x+3)^2 + (y+3)^2 = 4$ ② $(x+5)^2 + (y-4)^2 = 4$ ③ $(x-2)^2 + (y+2)^2 = 25$



④ $(x+3)^2 + (y-3)^2 = 9$ ⑤ $x^2 + (y+1)^2 = 1$ ⑥ $x^2 + (y-2)^2 = 9$



State the center and radius of each, do not graph.

⑦ $(x+5)^2 + (y+6)^2 = 9$ ⑧ $(x+8)^2 + (y-7)^2 = 4$ ⑨ $(x-4)^2 + (y+3)^2 = 49$

⑩ $(x+6)^2 + (y-6)^2 = 9$ ⑪ $x^2 + (y+2)^2 = 1$ ⑫ $x^2 + (y-4)^2 = 25$

⑬ $(x+6)^2 + (y-3)^2 = 36$ ⑭ $(x+1)^2 + (y+8)^2 = 16$

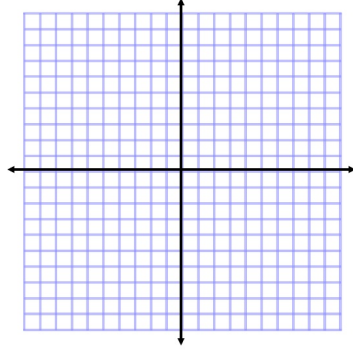
Still, find the center and radius only

⑮ $x^2 + y^2 + 10x + 12y + 52 = 0$ ⑯ $x^2 + y^2 + 16x - 14y + 109 = 0$

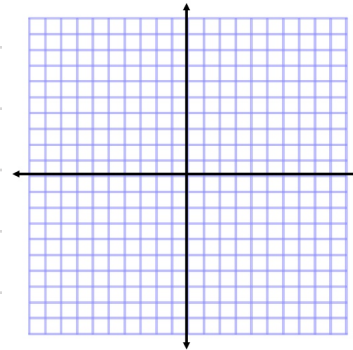
⑰ $x^2 + y^2 - 8x + 6y - 24 = 0$

Graph the circle

⑱ $x^2 + y^2 + 6x + 6y + 14 = 0$



⑲ $x^2 + y^2 + 10x - 8y + 37 = 0$



⑳ $x^2 + y^2 - 4x + 4y - 17 = 0$

