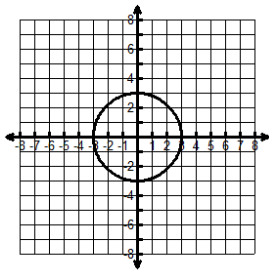


**SM2 12.4 odd answers**

1. center = (0, 0), radius = 3



11.  $x^2 + y^2 = 100$

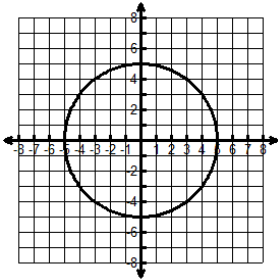
13.  $(x - 7)^2 + (y - 11)^2 = 64$

15.  $(x + 2)^2 + (y + 7)^2 = 34$

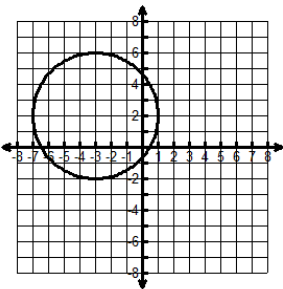
17.  $(x + 2)^2 + (y - 4)^2 = 1$

19.  $(x - 4)^2 + (y - 1)^2 = 4$

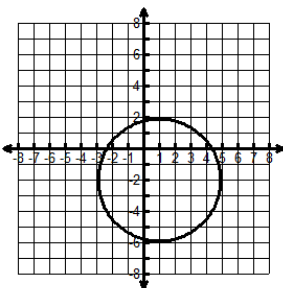
3. center = (0, 0), radius = 5



5. center = (-3, 2), radius = 4



7. center = (1, -2), radius =  $\sqrt{15} \approx 3.9$



9. center = (-4, 0), radius = 2

