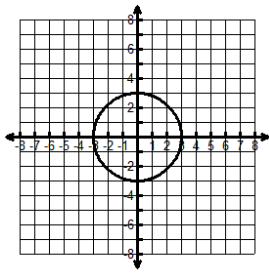
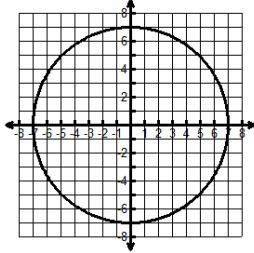


SM2 12.5 answers

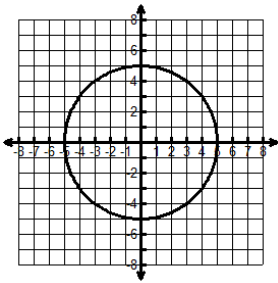
1. center = (0, 0), radius = 3



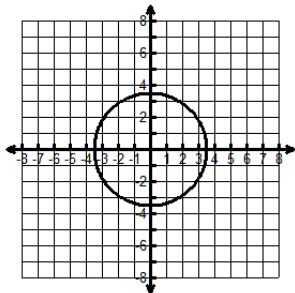
2. center = (0, 0), radius = 7



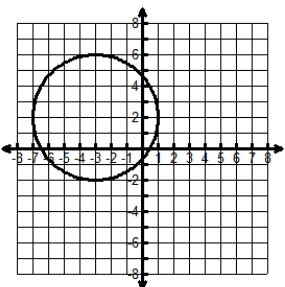
3. center = (0, 0), radius = 5



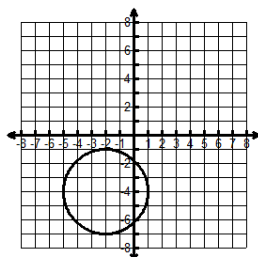
4. center = (0, 0), radius = $2\sqrt{3} \approx 3.5$



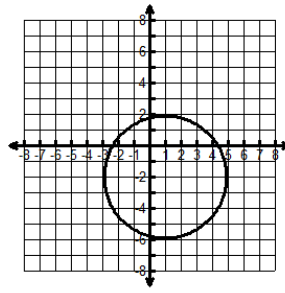
5. center = (-3, 2), radius = 4



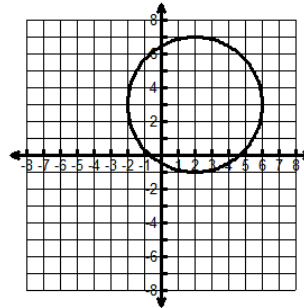
6. center = (-2, -4), radius = 3



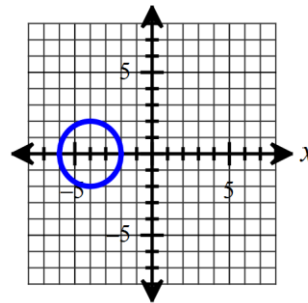
7. center = (1, -2), radius = $\sqrt{15} \approx 3.9$



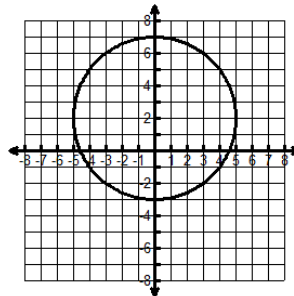
8. center = (2, 3), radius = 4



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



10. center = (0, 2), radius = 5



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

12. $(x + 12)^2 + (y - 7)^2 = 19$

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

14. $(x - 2)^2 + (y + 14)^2 = 16$

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

16. $(x + 5)^2 + y^2 = 100$

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

18. $(x - 2)^2 + (y + 2)^2 = 25$

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

20. $(x + 1)^2 + (y + 1)^2 = 9$