

1. (6,0)
2. yes
3. $(x-3)^2 + (y-2)^2 = 11$
4. on/on/in
5. \neq
6. $(x-1)^2 + (y-5)^2 = 16$
7. $x^2 + (y+5)^2 = 16$
8. C
9. $(x+3)^2 + (y-5)^2 = 25$
 $x^2 + y^2 + 6x - 10y + 9 = 0$
10. 5
11. Explain why the eq. should be
 $x^2 + (y-3)^2 = 16$

12. $(x-4)^2 + (y+1)^2 = 16$
13. $(x+3)^2 + (y+6)^2 = 5$
14. $(x-4)^2 + (y+2)^2 = 16$
 $(x-2)^2 + (y-4)^2 = 25$
15. $(x+2)^2 + (y-4)^2 = 68$
16. on
17. center (3,0) r=4
18. center (-3,-1) r=5
19. center (0,0) r= $\sqrt{6}$
20. $x^2 + y^2 - 6x + 2y + 8 = 0$

21. center (3,0) r=2
22. $x^2 + y^2 - 10x + 6y + 9 = 0$
23. $(x+12)^2 + (y-8)^2 = 4$
 $x^2 + y^2 = 16$
 $(x-12)^2 + (y-8)^2 = 4$
 $x^2 + y^2 = 100$
 $x^2 + (y+2)^2 = 4$
 $x^2 + (y+8)^2 = 4$

24. Scottsdale
Mathopolis
Chuckston
Thereson
Rosborough
25. (3,-1) r=3
 $(x-3)^2 + (y+1)^2 = 9$
26. no, inside... explain
27. no... explain

