



Finding the Center and the Radius of Circles

Identify the center and radius of each.

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|-----------------------------------|------------------------------|
| 1) $(x + 6)^2 + (y + 12)^2 = 18$ | Center: _____, Radius: _____ |
| 2) $(x + 1)^2 + (y + 3)^2 = 4$ | Center: _____, Radius: _____ |
| 3) $(x - 4)^2 + (y - 9)^2 = 16$ | Center: _____, Radius: _____ |
| 4) $(x - 8)^2 + (y + 11)^2 = 24$ | Center: _____, Radius: _____ |
| 5) $(x + 12)^2 + (y - 18)^2 = 81$ | Center: _____, Radius: _____ |
| 6) $(x - 9)^2 + (y + 14)^2 = 144$ | Center: _____, Radius: _____ |
| 7) $(x - 2)^2 + (y + 5)^2 = 10$ | Center: _____, Radius: _____ |
| 8) $x^2 + (y - 1)^2 = 4$ | Center: _____, Radius: _____ |
| 9) $(x - 2)^2 + (y + 6)^2 = 9$ | Center: _____, Radius: _____ |
| 10) $(x + 14)^2 + (y - 5)^2 = 16$ | Center: _____, Radius: _____ |
| 11) $x^2 + (y - 6)^2 = 22$ | Center: _____, Radius: _____ |
| 12) $(y - 11)^2 + (x - 6)^2 = 9$ | Center: _____, Radius: _____ |

State the center and radius of each equation and graph.

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

2) $(x + 3)^2 + (y - 7)^2 = 9$

Center: _____, Radius: _____

Center: _____, Radius: _____

