

WS PC #2 Review Unit 10

Use the information provided to write the standard form equation of each circle.

1) Center: $(-12, 7)$
 Radius: 3

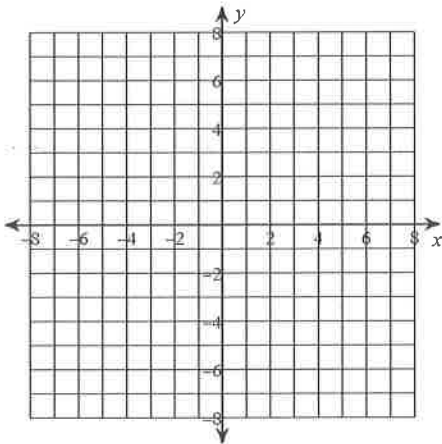
2) Center: $(5, -9)$
 Radius: 1

3) Center: $(16, 2)$
 Radius: $\sqrt{5}$

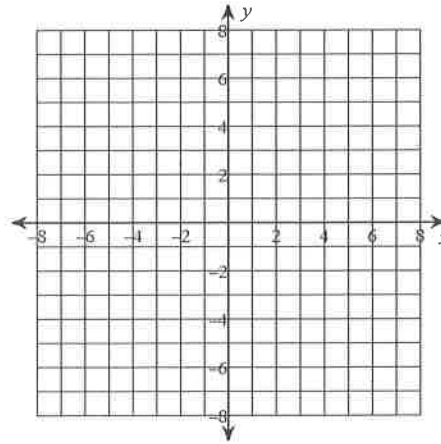
4) Center: $(-9, -6)$
 Radius: 9

Identify the center and radius of each. Then sketch the graph.

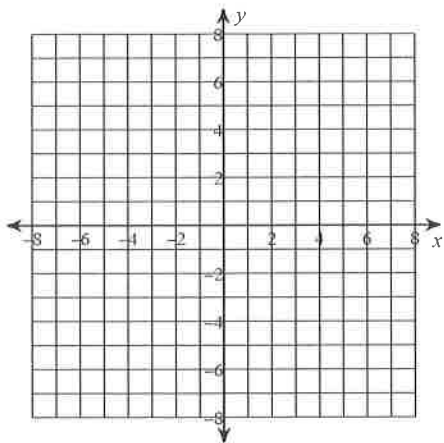
5) $(x - 3)^2 + (y - 1)^2 = 16$



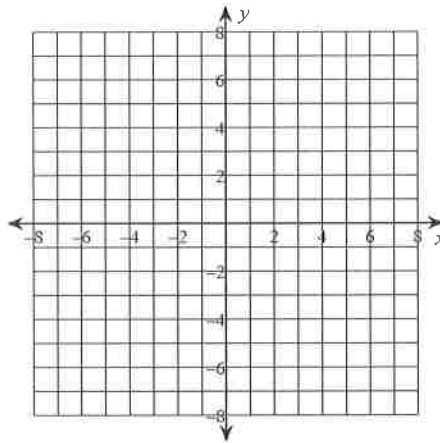
6) $(x + 3)^2 + (y - 2)^2 = 9$



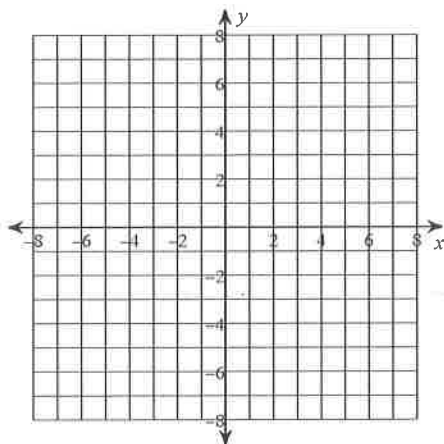
$$7) x^2 + y^2 + 8x + 8y + 27 = 0$$



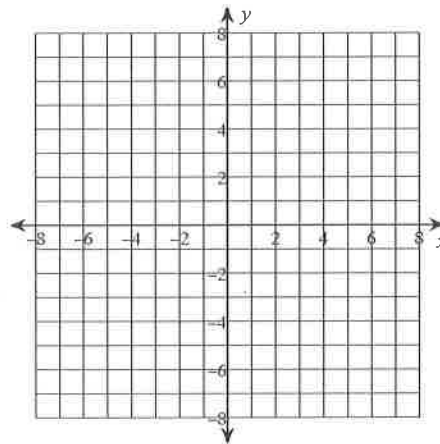
$$8) x^2 + y^2 - 6x + 4y + 9 = 0$$



$$9) x^2 + y^2 + 8x - 2y + 8 = 0$$



$$10) x^2 + y^2 + 6x + 4y - 3 = 0$$



Write the general form equation of each circle.

11) $x^2 + y^2 - 4x + 8y - 80 = 0$

12) $x^2 + y^2 + 18x - 22y + 197 = 0$

13) $x^2 + y^2 + 32x + 20y + 349 = 0$

14) $x^2 + y^2 - 12x - 6y - 19 = 0$

Solve each equation by factoring.

15) $x^2 - 3x = 40$

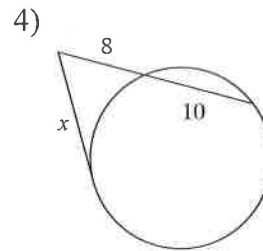
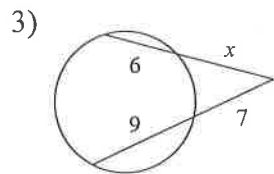
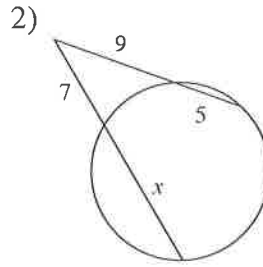
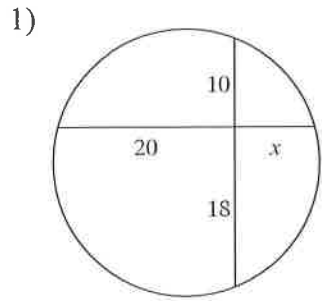
16) $5b^2 + 28 = 27b$

17) $6k^2 = 23k + 35$

18) $21k^2 = 153k + 120$

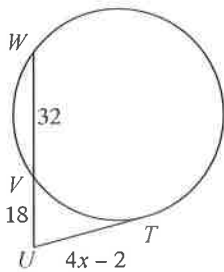
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Solve for x . Assume that lines which appear tangent are tangent.



Find the measure of the line segment indicated. Assume that lines which appear tangent are tangent.

5) Find TU



6) Find UT

