Algebra 2 Worksheet Section 10.2 #1 - Circles

Complete this "mini-worksheet" in addition to the book assignment p.732-733 #2-8,23.

1. Write the equation of the circle with center (2,5) and tangent to the x-axis.

2. Write the equation of the circle with center (-4,2) and tangent to the y-axis.



$$(x-2)^2+(y-5)^2=25$$

3. Rewrite the circle $x^2 + 4x + y^2 - 8y = -11$ in standard form. Then find the center and the radius. 4. Rewrite the circle $x^2 + y^2 - 10x - 11 = 0$ in standard form. Then find the center and the radius.

$$\frac{(x+2)^{2} + (y-4)^{2} = 9}{(center(-2,4); r = 3)}$$

(enter (5,0); r=6

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(4.) Rewrite the circle $x^2 + y^2 - 10x - 11 = 0$ in