

Here's some circle questions that summarize the past 1 1/2 days...

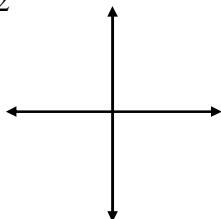
1. Write an equation for a circle with center @ (4, -3) and radius $=\sqrt{8}$

2. Write an equation for a circle with center @ (6, 1) and a point on the circle of (2, -4)

3. Without using a calculator, sketch the equation

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

Always label the center and at least one point on the circle

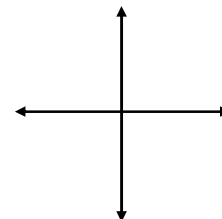


4. Without using a calculator, sketch the equation

$$x = \sqrt{9 - y^2}$$

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For this problem you may rewrite the equation in standard form to help think about the graph... but ultimately you need to decide what portion of the graph is represented by the $x =$

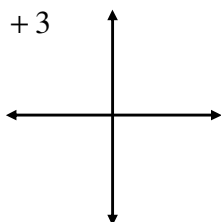


5. Without using a calculator, sketch the equation

$$y = \sqrt{16 - x^2} + 3$$

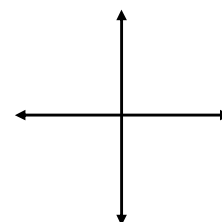
Label Points and...

Again... you may rewrite the equation in standard form to help think about the graph... but ultimately you need to decide what portion of the graph is represented by the original $y =$



6. Without using a calculator, sketch the equation

$$y = 4 - \sqrt{9 - x^2}$$



Bonus on back →

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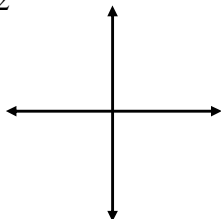
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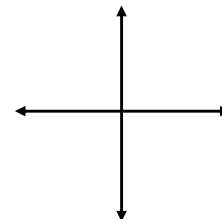


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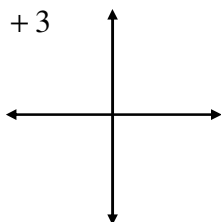


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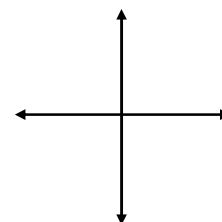
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Bonus on back →

Bonus: Determine the center and radius of the following circle.

Although you most likely can determine these answers from carefully inspecting the graph...

Mr. Naylor wants to see you “complete the square” then write into Standard Form (for the bonus)

$$y = -5 \pm \sqrt{-x^2 + 8x - 7}$$

center: _____

radius: _____

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