

Geogebra Day 34: Equations of Circles

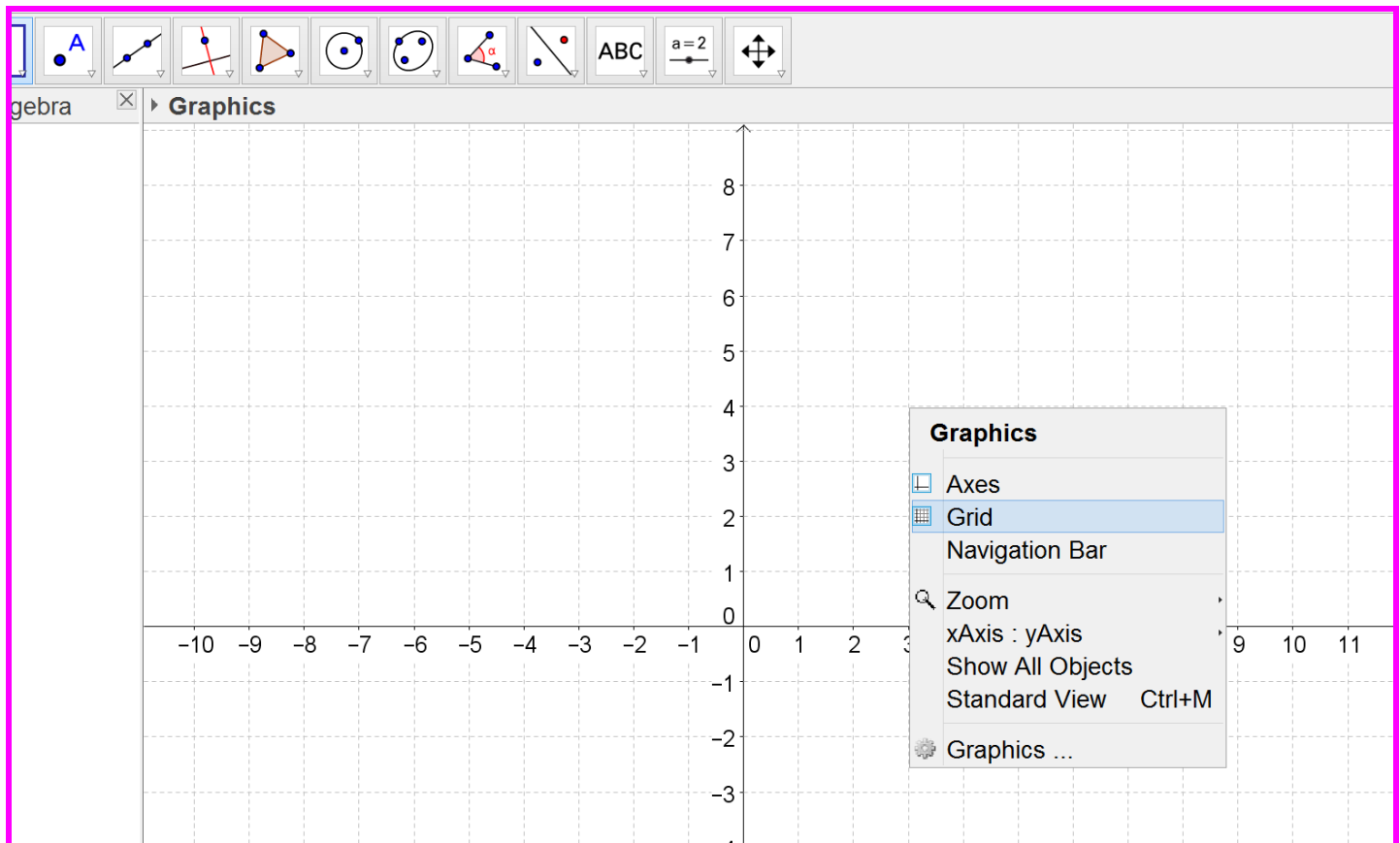
Theory

Equations of circles look scary, but once you discover the patterns, they'll start to look simple to you. Soon, you'll be creating these equations on your own.

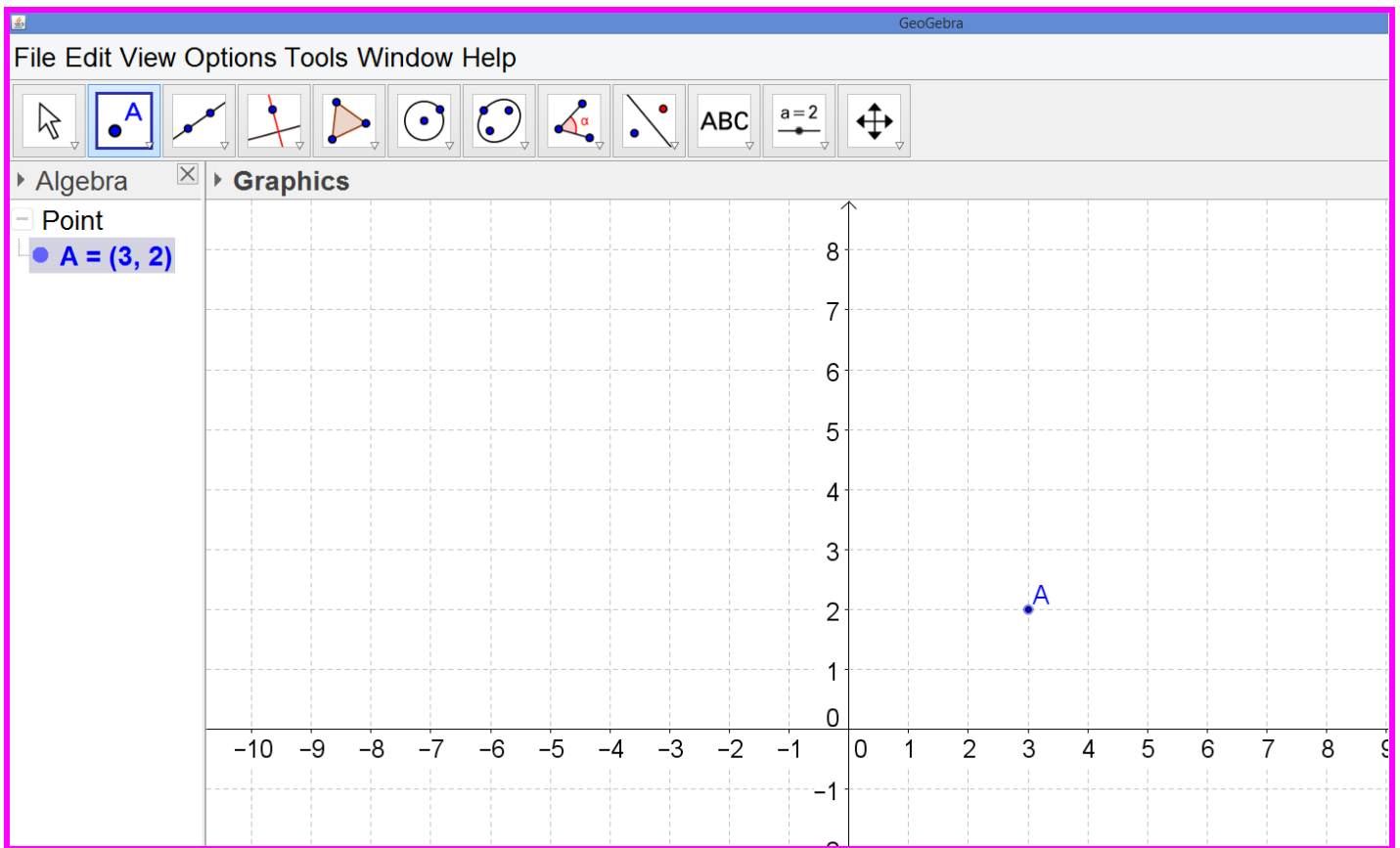
Summary

We will create a bunch of circles until we can find the pattern to their equations. Then we'll be given some equations and try to make the circle

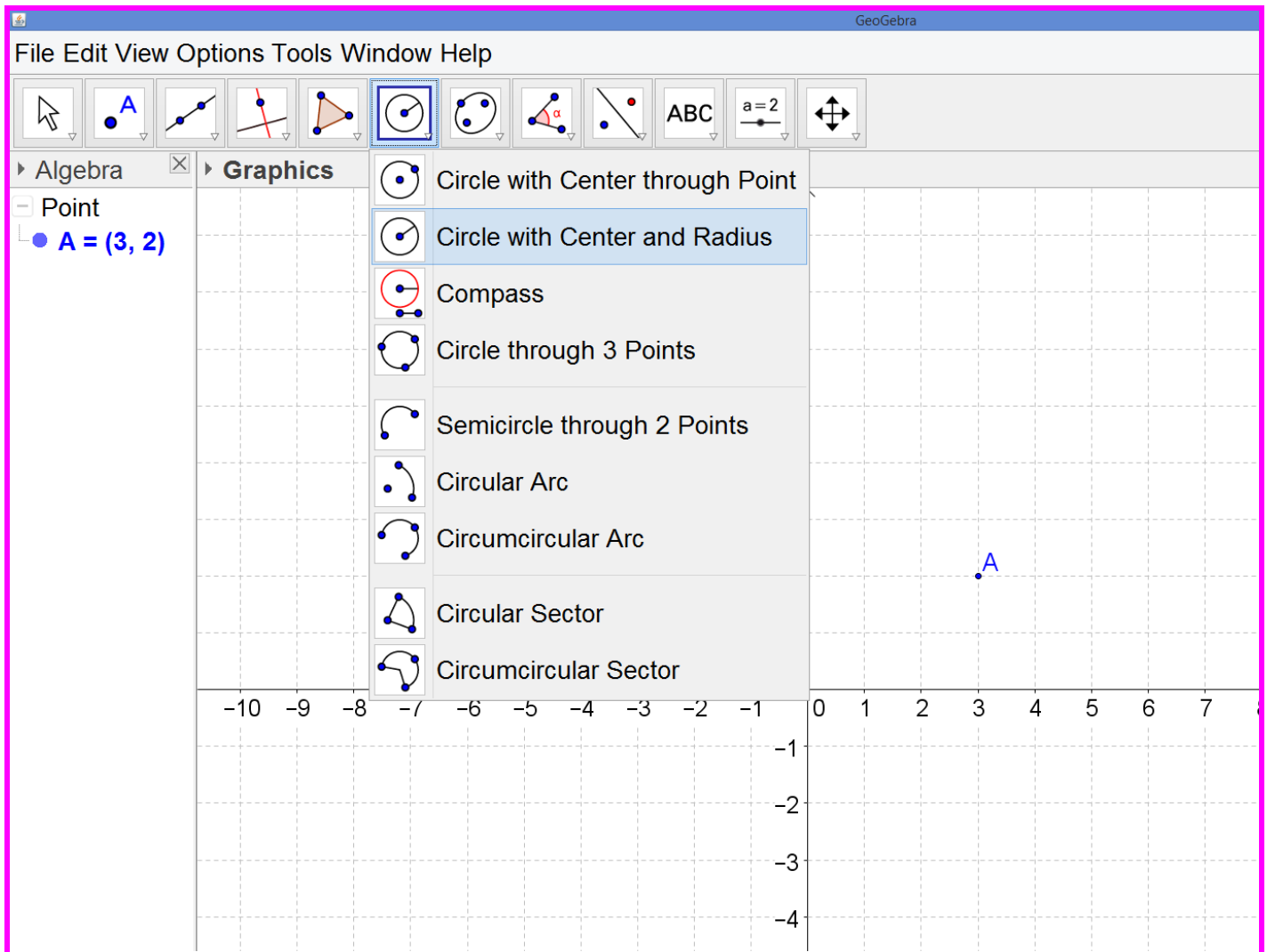
1. Right click anywhere on the graphics view and select “**Grid**”



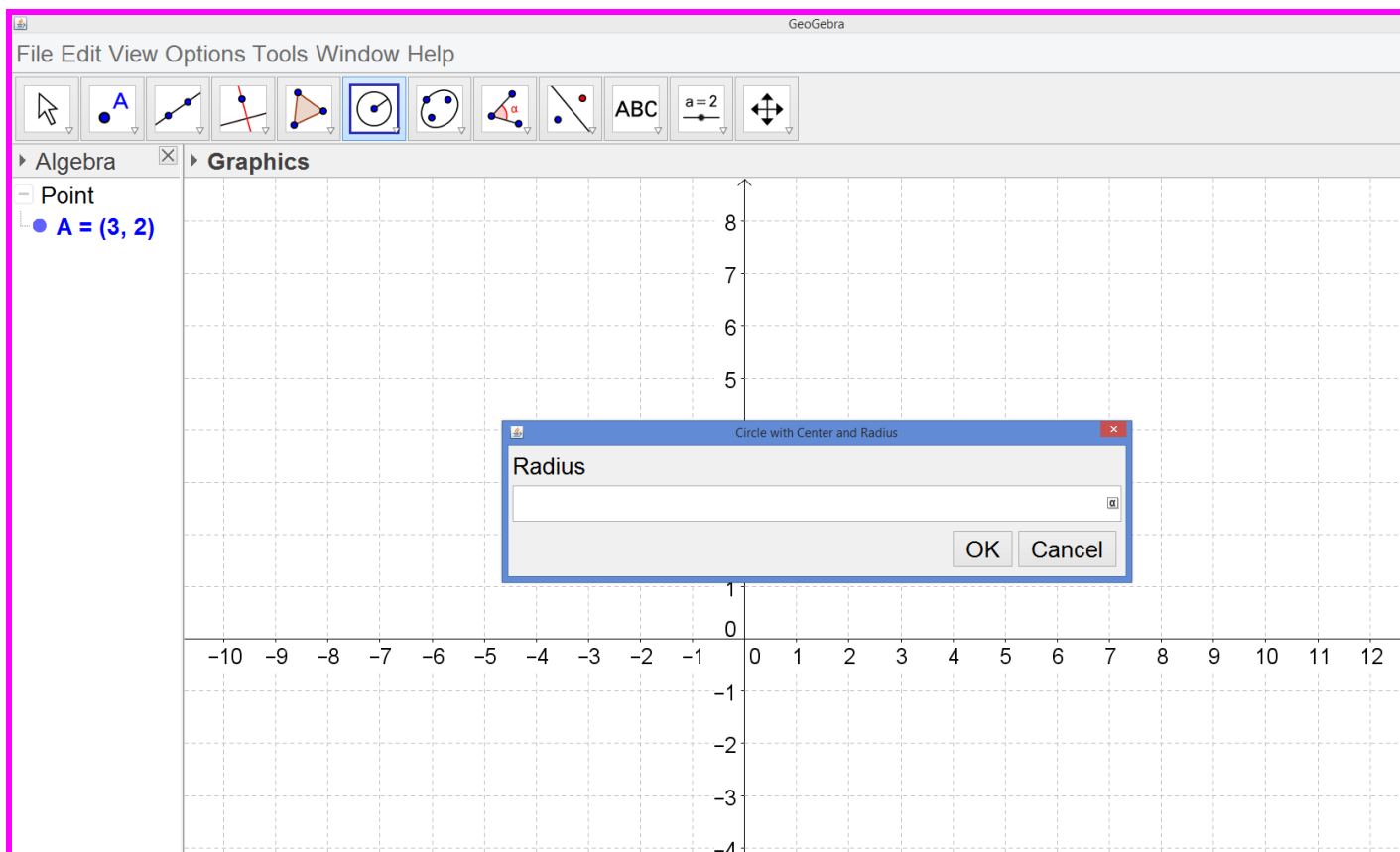
2. Using the “**Point**” command, create a point to be the center of your circle.



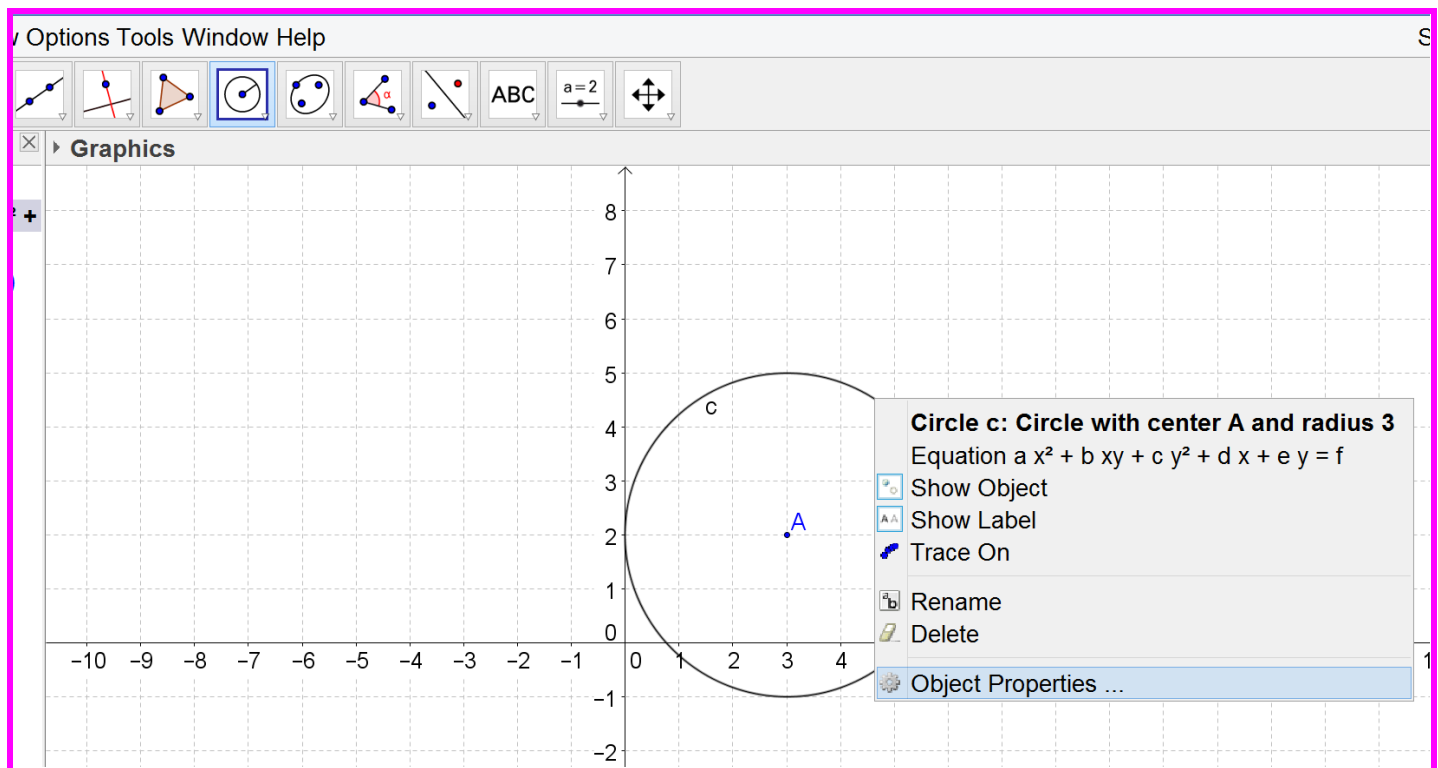
3. Using the “**Circle with Center and Radius**” command, create a circle by clicking on your center point.



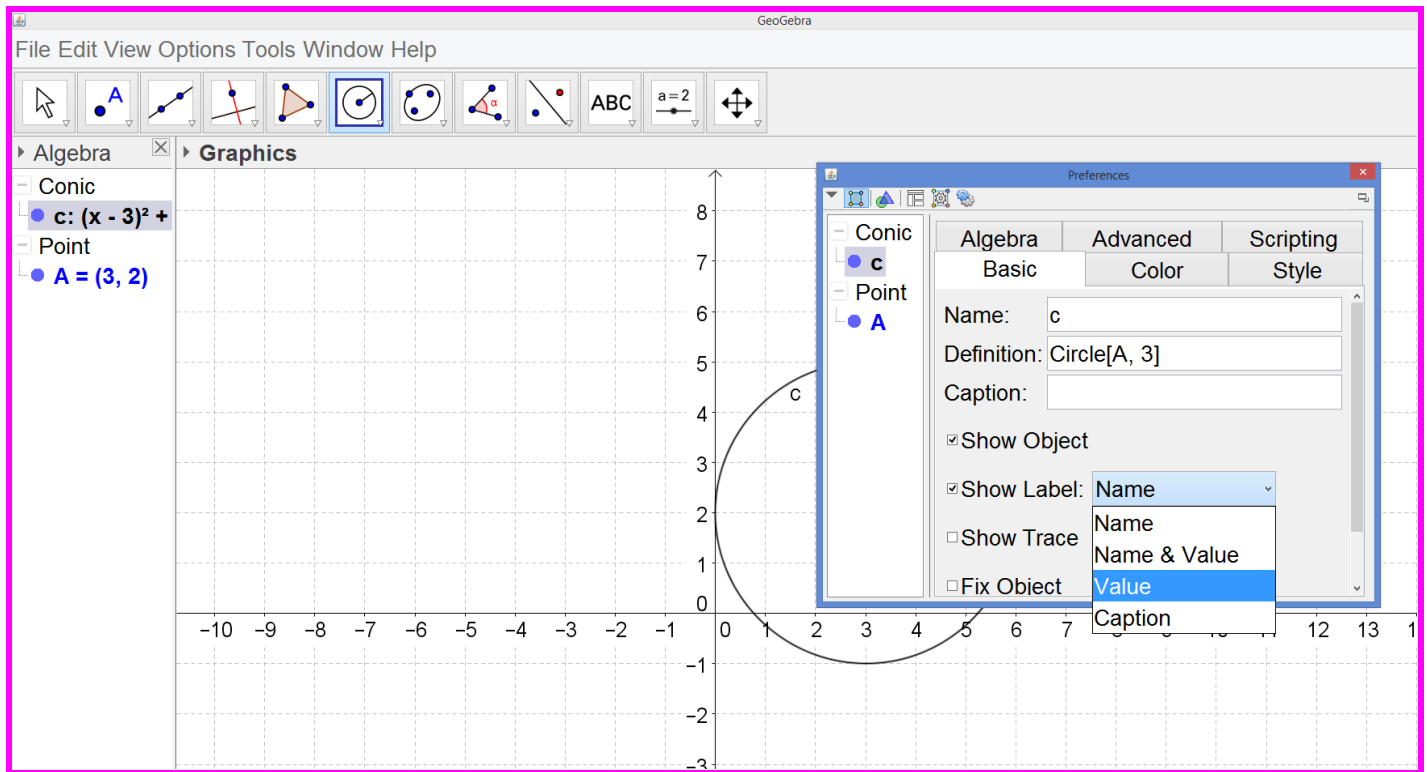
4. When the dialogue box pops up, enter your desired radius.



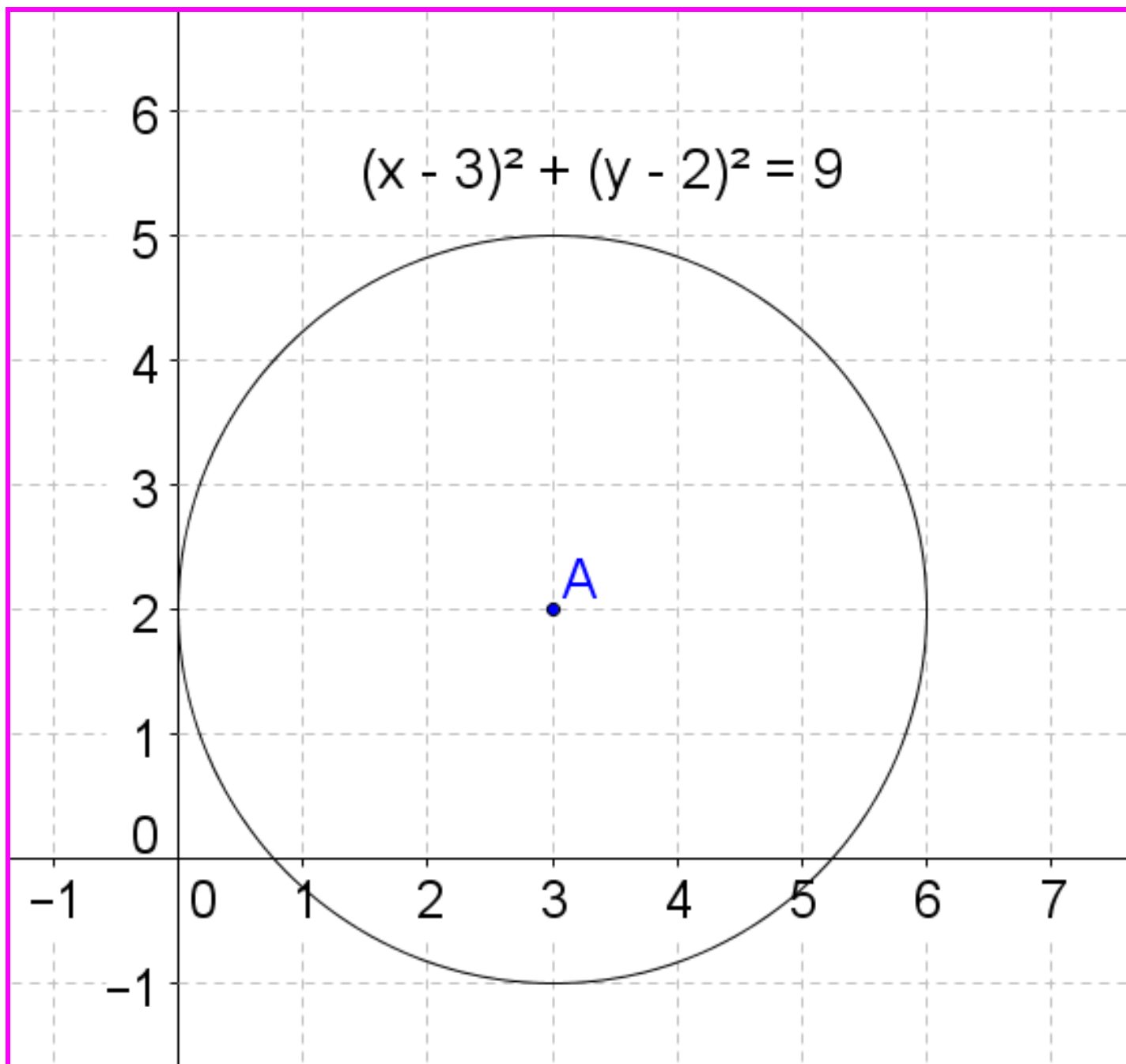
5. Right click on the circle and select “**Object Properties**”



6. Under the “Basic” tab, go to “Show Label” and change the drop down menu from “Name” to “**Value**”.



7. Your circle should now display its equation. Write this down for your worksheet.



8. You can erase your circle by right clicking on the center point and selecting “**Delete**”. Then you can move on to the next circle on your worksheet.

