

Circles Project - Student Directions

Objectives:

- Students will create a creative, school-appropriate picture representing different aspects of circles learned in chapters 11-13.
- Final submissions must include the requirements listed below.
- Grading will follow the attached rubric; projects will be graded on accuracy as well as creativity, feel free to go beyond what is required.

Requirements:

- ☐ At least six circles throughout the picture
- ☐ Equations for each circle
- ☐ Coordinate point for the center of the circle for each circle
- ☐ Radius length for each circle
- ☐ At least one sector area and its equation
- ☐ At least one inscribed shape and its area
- ☐ At least one segment of a circle and area of the segment
- ☐ At least one defined arc and the arc length

Organization:

- Project will be drawn and completed on the provided coordinate grid.
- On a separate sheet of paper include all required equations, areas, etc.
- Use descriptions to differentiate between circles, shapes, sectors, etc.
- Staple completed project and the equations page with the rubric on top.
- Name, teacher and class period should be on rubric and back of the project.

Important Dates:

- May 13-16th Project checkpoint (Daily Grade)
- May 21st (A-day) 22nd (B-day) **Project Due**

Total Score _____

Name _____

Date _____ Period _____

Circles Project Rubric

	Meets All Requirements	Mostly Meets Requirements	Partially Meets Requirements	Does Not Meet Requirements
Picture Requirements	25 points All picture requirements are met: six circles, sector, inscribed shape, segment, and arc.	15 points Most picture requirements are met.	5 points Missing multiple picture requirements.	0 points Missing more than half the picture requirements.
Circle Equations and Requirements	25 points Six circle equations, centers, and radii. All are correctly found and written.	15 points Most circle equations, centers, and radii are correctly found and written.	5 points Circle equations, centers, and radii are incorrectly written.	0 points Missing circle equations, centers, and radii.
Other Required Equations and Areas	20 points Equations, areas, and lengths are correctly found and written for sectors, shapes, segments, and arcs.	10 points Most equations, areas, and lengths are correctly found and written.	5 points Equations, areas, and lengths are incorrectly written.	0 points Missing equations, areas, and lengths.
Organization of Material	15 points Material is organized in a way that is easy to be found and understand.	10 points Material is fairly easy to find and understand.	5 points Material is hard to find and understand.	0 points Material is not organized.
Creativity	15 points Picture is complete, colored, organized, and shows creativity.	10 points Picture is complete, is mostly colored and shows creativity.	5 points Picture is complete but not colored, and does not show creativity.	15 points Picture is incomplete, not colored and does not show creativity.
"Above and Beyond" (BONUS)	+5 points Project goes above and beyond with creativity or additional material such as added circles, arcs, sectors, shapes, equations, etc.			
Comments				