

MONDAY 3/26 CIRCLES

OBJECTIVE

- Review equations of circles
- Word problems with circles

CLASSWORK

- “Circular garden with a surrounding walkway” (*See Agenda below*)

HOMEWORK

- Read/Take Notes CH 8.4, P433-435. Do P 437 #1, 2

LAST HOMEWORK

- Text P 428 #2 – 9, 16, 17

All of the above is written on the board before the students enter the room, and remains for the duration of the class. The below is my Agenda for the class:

AGENDA

11:50

- Review Homework (*I allow much time for homework as this is the conclusion of our treatment of Circles*)

12:15

- Lecture. Word Problem. Hurricane Andrew, its eye and area of influence expressed as circle equations.

12:30

- Classwork. I have a circular garden whose diameter is 20 feet. A circular walkway surrounds it. The walkway is 3 feet wide. I) What is the equation of the circle enclosing the whole area, if we regard the center of the garden as the origin? II) What is the equation of the whole area, if the center of the garden is at the point (30,20)?

12:40

- If time: class and I will begin Homework Assignment together, which is reading/taking notes on the complicated treatment of ellipses given by the Text.

COMMENTS ON THIS CLASS:

It was good. But they talked too much. They are unruly. What to do? I don't know. I did have a few moments to give an overview of ellipses, and to compare them with circles. Circles are a special case of ellipses... the case in which the foci are on top of each other – in this case this represents to center of the ellipse and the center of the circle. Now I feel that we are not going into a forbidding topic cold. The book's presentation of ellipses is complicated.