FRIDAY 3/23 CIRCLES

OBJECTIVE

- Write equations of circles

CLASSWORK

- Text P 428 #2 (*See Agenda below)*

HOMEWORK

- Text P 428 #2 – 9, 16, 17 *(these problems are more demanding in requiring use of the student's own logic, rather than applying cookbook formulae)*

LAST HOMEWORK

- Worksheet Circles P 467 *(see attached)*

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 because the problems are advanced and only partially covered by the lecture yesterday)*

12:15

- Lecture. Complete the square. *(This is an exercise which allows the mathematician to transform a circle equation into the "standard form" from which the center and radius may be read off. This exercise parallels that used to transform the parabola into standard form, and this similarity will be discussed as well as the comparison that can be made between the center of a circle and the vertex of a parabola.)*

12:25

- Classwork *"Write $x^2 + y^2 + 6x - 2y + 54 = 0$ in standard form. Describe its relationship to $x^2 + y^2 = 64$"*

12:30

- "Review Homework. Begin to do them or ask me for help." *These problems include transforming circles into standard form as well as other exercises.*

12:35

- Exit problem *(see attached)*

COMMENTS ON THIS CLASS:

Very cooperative class, in contrast with yesterday.