## She helps conquer the mighty mathematical equation

At 44; Sheila Tobias is studying cal-culus. It's a big step for an admitted "math avoider" who put numbers be-





Jim Herbert

Jim, 15, of 25656 Chaplewiegh Drive in Farmington Hills, began his Farmington Observer route in. February, 1977. His route is along Leestock and Skye Drive. A tenth grader at Catholic Central High School, Jim's favorite subjects are geometry and chemistry. He has a 3.5 grade point average and plans to go to college.

to go to college. His hobbies are hockey and rac-

quetball.

Jim is the son of James and Char-lene Herbert.

Call 261-3800 hind her after eleventh grade algebra.

"It's certainly something I never thought I'd do," says the former college administrator who recently published a book for math avoiders called "Overcoming Math Anxiety."

"I' even have to have a blackboard in my office now; that's a typical math-science need."

science need."
Ms. Tobias—like many people—stopped struggling with fractions and equations in high school. She graduated Phi Beta Kappa from Radcliffe College and earned two advanced degrees from Columbia University without tackling math again.

Phi Beta Kappa from Badelife College and earned two advanced degrees from Columbia University without tackling and agrand two advanced degrees from Columbia University without tackling math again.

"I think it has to do with the mythough of the mind. People think they have to choose between math and english; they feel they can't do both," the Washington D.C. consultant told a group of Cokland University faculty members this week. She was in Avon Township to promote the university faculty members this week. She was in Avon Township to promote the university faculty members this week. She was in Avon Township to promote the university faculty members this week. She was in Avon Township to promote the university of the promote the state of the Antonian Organization of Women (NOW) who is best known for her work in women's studies and efforts to achieve educational and job equity for women and minorities.

A major thrust of her work is that math anxiety plays a big part in occupational discrimination. She contends lear of math keeps many people—especially women—out of courses needed to enter many fields avery special discription. It has teserved to the the association with genius," says Ms. Tobias, possible of the same three the strength. The strength of the streng

west rassage, began as a study of oc-cupational segregation.
"I began to focus on math avoidance as the key to occupational segrega-tion," she explained. "For the last six years I've been trying to examine rea-

sons for math avoidance and intervene."

She says famale students tend toop math affec their junioryear in drop math affec their junioryear in the sems to see women and are women and are math avoiders. The experience women have seems to come to some point in the tenth grade that seems to be a bad year, though some get scarced in fifty grade."

Then when young women go on to college, they are excluded from many-fields because four years of math are required to get large of the properties of the

majors to math, she says.

"Anxiety is an experience and once it's there it feels terrible," adds the slim consultant, who speaks from personal knowledge. "Panie occurs when you feel helpless and people who don't understand math feel helples."

"There's the expectation that your rol going to do well, so you quit."

Nath clinics, which now number 7s chance to discuss their feelings about a country, offer students a chance to discuss their feelings about to the classes in algebra and calculus

## Y sponsors open house

The Farmington Area YMCA staff hosts an open house from 6:15-8:30 p.m. Sunday, Sept. 23, in Mercy Center to familiarize guests with the parent and child programs the Y offers this sea-

child programs the Y offers this sea-son.

"These programs provide time to-gether for father or mother and their sons or daughters through bi-monthly small group meetings," said Dave See-feld, the Y's new program director. "In addition, we scheduled periodic all-day or weekend activities, such as cam-pouts, parades, or banquets." Guests at the open house can use from gran or pool without charge from £15-7.15 p.m.

On hand will be representatives from all the parent and child programs, free

The Y offers five programs for the parent and child.

Indian Guides is for fathers with sons

between 5-10 years. Indian Princess is for fathers with daughters between 5-

for fathers with daugniers outween J 10 years.
Trailblazers is for fathers with sons older than 10, and Trailmates for fathers with daughters older than 10.
"We also can make arrangements to meet the needs of single parent families," Seefeld said. "Just give us a call at 53-4020.
Mercy Center is located on 11 Mile Road, east of Middlebelt Road. Guests are asked to enter Gate 4 and to use the green door.

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