

Contributed picture

Welsh corgi Elvis, who died last year, is pictured with a calculus textbook. The lessons may be trite for dogs, according Elvis' owner, a math professor slated to lecture at Lake Michigan College.

## nine calculations

## Your dog's inner voice might be a computer

**By Louise Wrege HP Staff Writer** 

BENTON TOWNSHIP - "Do Dogs Know Calculus?"

In a March 25 lecture, math professor Tim Pen- jump into the water math- also can be solved using alnings will discuss how his ematically to minimize" gebra, but it takes a lot lonchose the quickest path to to fetch the ball, said students have to use trial College in Holland for the ball was thrown in the ally an optimization probwater.

The presentation will be open to the public. Call said he should enter it. 927-8626 for more information.

always the shortest one, "The dog doesn't actually power station. He said the said LMC math instructor know calculus, but he acts shortest distance isn't al-Peter Brown, because it as if he does because he's ways the most economical takes a lot longer to swim optimizing it through in-solution because it costs a in the water than to run on stinct." the land.

dog, Elvis, consistently the amount of time it takes ger. With algebra, he said retrieve a ball from Lake Brown, who helped bring and error to find the cor- many years and is now the Michigan no matter where Pennings to LMC. "It's re- rect answer. lem."

And amazingly, he said 1-2:30 p.m. in the Brown Elvis, a Welsh corgi who solved in one calculation Lecture Hall at Lake Mich-died last year, would always with calculus. igan College in Benton enter the water close to Township. It is free and where the calculus answer to solve this problem has

ing ideas about how nature run a power line from wind

He said the problem of "Where should the dog where to enter the water to bury it on land. gebra, but it takes a lot lon-

it's just laborious," he said.

Brown said knowing how real-world applications, "This brings up interest- such as the cheapest way to the Welsh Corgi." The quickest path isn't operates." Brown said, turbines in the ocean to a 0361, Twitter: @HPWrege

lot more money to bury wire under the ocean than

"You have the same type of problem there," he said.

Pennings taught at Hope chairman of the depart-"It's pretty basic algebra, ment of mathematics at Davenport University. Be-The problem can be sides "Do Dogs Know Cal-olved in one calculation culus?," his research with Elvis includes "Do Dogs Know Bifurcations?" and "Elvis Lives: Mathematical Surprises Inspired by Elvis

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