Math Jeopardy

Calculus	Definitions	History	Discrete	Puzzles
100	100	100	100	100
200	200	200	200	200
300	300	300	300	300
400	400	400	400	400
500	500	500	500	500

Calculus 100

Compute: $\frac{d^2}{dx^2}(x^2\cos(x))$

Answer ▸ Game Board

Calculus 200

What is Rolle's Thoerem?

Answer ▸ Game Board

Calculus 300

Compute $\int \int \int x + 6 \; dx^3$

Answer ▸ Game Board

Calculus 400

Compute: $\frac{d}{dx}(2^x)$

Answer ▸ Game Board

Calculus 500

Compute: $\int \frac{1}{x^2\sqrt{x^2-4}}dx$

Answer ▸ Game Board

Definitions 100

Give an equation containing two variables that is not a function:

Answer ▸ Game Board

Definitions 200

What does it mean for a function to be even?

Answer ▸ Game Board

Definitions 300

What is a DiHedral group?

Answer ▸ Game Board

Definitions 400

In the equation $8 - 3 = 5$ what is the minuend?

Answer ▸ Game Board

Definitions 500

State the Fundamental Theorem of Calculus:

Answer ▸ Game Board

History 100

Who invented Calculus?

Answer ▸ Game Board

History 200

What base was the Mayan number system?

Answer ▸ Game Board

History 300

$\sqrt{2}$ is known as this mathematician's constant:

Answer ▸ Game Board

History 400

This famous mathematician introduced the notion that some infinities are bigger than others.

Answer ▸ Game Board

History 500

Who was the first person to use $f(x)$ notation?

Answer ▸ Game Board

Discrete 100

What is the definition of odd?

Answer ▸ Game Board

Discrete 200

State the Well-Ordering Principle

Answer ▸ Game Board

Discrete 300

A drawer contains 6 pairs of black socks, 5 pairs of white socks, 5 pairs of red socks, and 4 pairs of green socks. How many single socks do we have to take out to make sure that we take out two socks with different colors?

Answer ▸ Game Board

Discrete 400

What does it mean for a function $f : \mathbb{R} \to \mathbb{R}$ to be a surjection?

Answer ▸ Game Board

Discrete 500

Let $M = \{m : m \text{ is a math major}\}$, $P = \{p : p \text{ is in this room}\}$, $F = \{f : f \text{ is having fun}\}$. Convert the following formal notation to words without the use of variables:
$\forall x \in M$,if $x \in P$ then $x \in F$

Answer ▸ Game Board

Puzzles 100

What is $\pi + e$?

Answer ▸ Game Board

Puzzles 200

Using only addition, how can you make eight 8's into 1000?

Answer ▸ Game Board

Puzzles 300

What is the difference between a new penny and an old quarter?

Answer ▸ Game Board

Puzzles 400

There is a chain nailed to a wall. The chain is 10 feet long and the center of the chain dips down 5 feet from where each side of the chain is nailed to the wall. How far are the 2 ends of the chain from each other?

Answer ▸ Game Board

Puzzles 500

You have three bag. Bag A contains two black marbles, bag B contains two white marbles, and bag C contains one black and one white marble. You choose a bag and pull out a white marble. What is the probability that the second marble in the bag is white?

Answer ▸ Game Board