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Why Leibniz

Leibniz' notation is used foday.
Found that dy/dx is the derivative.
Future mathematicians based their work on Leibniz' work.
Published in 1684, three years prior to Newton.
There is no proof that Le bniz saw Newton's manuscript before it was published.



Why Leibniz cont.

 Invented algorithmic procedures for differential calculus. Explained both different ation and integration • Discovered Calculus in Paris, no where near Newton, before the letters even started. Leibniz'work was always constant and meticulous, while New on's was random and scattered. • Was not found guilty of plagiarism.



Why not Newton

Newton based his ideas off of Galileo, Kepler, and Descartes.
Did not publish until after Newton.
Did not have any notation.
Learned about different al calculus from Leibniz.
Kept ideas to himself.

Why not Newton cont.

- Newton primarily worked with fluxions.
 Newton never debated if e invention of calculus until AFTER he published his own work.
- He focused mainly on prysics work instead of mathematician.
 Leibniz' handwriting car be found in Newton's book.
- Newton's calculus was not as complete as Leibniz'.

Timeline

1675- Leibniz invents the modern notation integration & figures out the for product rule

Newton sends left ers to Leibniz 1676-

1684- Leibniz pubilishe work Newton starts work on Principia

Timeline

1686- Leibniz publishes again

1687- Newton publishes for the first time

1716- Leibniz dies in the middle of the battle

Contributions

We use his notations
We use dy/dx to find tar gent
We use his algorithmic procedures when differentiating equations.
The calculus used toca / is related closest to Leibniz'.

Sources

Sastry Article

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