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Magnitude of a Vector

Distance Formula

Part B Asks Us To Sketch the Vector

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Intro

Drawing

Solution

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Intro

Solution

Outro

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The Toolbox Method

Established What Relevant Equations

Recap

Solve for Unknown

Relevant Equations

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Intro

Classical mechanics

Knowing the change in velocity, you can make predictions

Buoyant Force

About 1 Newton

Newton's Law of Universal Gravitation

Energy and thermodynamics

Energy is not a vector

20 mph (32 km/h) faster almost doubles the energy of a car

Total energy is kinetic plus potential

Gasoline has chemical potential energy

Thermodynamic Systems Thermal Energy

Kinetic energy of car converted to thermal energy from friction of the brakes

Entropy is a measure of "disorder," or the information required to describe microstates

2nd law of thermodynamics: Entropy of an isolated system can never decrease

Gasoline more useful for work than heat from exhaust

Exhaust will not rearrange itself to become gasoline

but gasoline can be converted to heat and exhaust

One way flow of entropy appears to be the only reason there is a forward flow of time

Electromagnetism: Study of interaction between electrically charged particles

Moving charges create magnetic fields

Moving magnetic field affects charges

Magnets always have two poles

Faraday's law

Moving magnetic field creates an electrical field

Laws of physics on moving train is same as laws of physics standing still

Energy is not continuous, but is quantized

Heisenberg's Uncertainty Principle uncertainty in momentum

Note: central cluster of electrons exaggerated for illustration. Only a probability cloud exists

Model of hydrogen atom with electron at lowest energy state

A quantum system can be elementary particles

The Simplest Math Problem No One Can Solve - Collatz Conjecture - The Simplest Math Problem No One Can Solve - Collatz Conjecture by Veritasium 39,287,105 views 2 years ago 22 minutes - Special thanks to Prof. Alex Kontorovich for introducing us to this topic, filming the interview, and consulting on the script and ...

COLLATZ CONJECTURE

HASSE'S ALGORITHM

10,5, 16,8, 4, 2, 1

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Intro

Distance and Displacement

Speed

Speed and Velocity

Average Speed

Average Velocity

Acceleration

Initial Velocity

Vertical Velocity

Projectile Motion

Force and Tension

Newtons First Law

Net Force

EMF & internal resistance - Physics A-level Required Practical - EMF & internal resistance - Physics A-level Required Practical by Malmesbury Education 66,885 views 5 years ago 4 minutes, 17 seconds - Mr Rees shows you how to find the emf and internal resistance of a battery.

Internal Resistance

Terminal Pd

Results

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Scalar and Vector Quantities

Acceleration

Difference between Displacement and Distance

Gravity

Electrostatic Forces

Contact Forces

Friction

Newton's Third Law of Motion

Free Body Diagrams

The Normal Force

Resultant Force Diagram

Calculate the Resultant Force

The Center of Mass

Calculate the Center of Mass

Center of Mass

Moments Levers and Gears

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Intro

Part A

Part B

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Intro

Diagram

Solution

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