

Example 1: A particle moves along a line so that its position at any time $t \geq 0$ is given by the function

$$f(t) = 2t^2 - 3t - 3 \text{ where } f \text{ is measured in meters and } t \text{ is measured in seconds.}$$

Is the particle speeding up or slowing down when the position of the particle is 15 meters?

$$f(t) = 2t^2 - 3t - 3 \quad \text{acceleration}$$

$$a(t) = f''(t)$$

$$f(t) = 2t^2 - 3t - 3 = 6$$

$$f'(t) = 4t - 3$$

$$2t^2 - 3t - 3 = 6$$

$$f''(t) = 4$$

$$2t^2 - 3t - 9 = 0$$

$$a(t) = 4$$

$$(2t+3)(t-3) = 0$$

$$a(3) = 4$$

$$2t+3 = 0 \quad t-3 = 0$$

speeding up

$$2t = -3 \quad t = \cancel{-\frac{3}{2}}$$

$$t = 3$$

Calculus Motion Problems

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Calculus Motion Problems:

The Path to Resolve the Cmi Millennium Problems Shi Feng Sheng,Danny Wong,2022-04-14 This book is not for everyone but a must for researchers in the field of number theory topology computer science and physics or anyone loves mathematics and science with college level knowledge curious spirit and an open mind Proclaimed solution of the 1742 Goldbach's conjecture by Mr Shi proved the principal problem in number theory was arithmetic in nature together with the other topics addressed in his book illustrated the mathematical knowledge is not a collection of isolated fact Each branch is a connected whole linked to other branches that we do not understand mathematically but ultimately they are all connected to the roots of mathematics the pattern of the primes Moreover we are optimistic solution of the CMI problems and other conundrums addressed in this book were credible because nothing occurs contrary to nature except the impossible and that never occurs Galileo 1564 1642

[The Language of Nature: Why Physics Speaks Mathematics](#) Dr. Kumar Aditay ,Dr.

Manish Kumar,2025-11-21 **X Marks the Spot** Richard Garfinkle,David Garfinkle,2021-02-04 X Marks the Spot is written from the point of view of the users of mathematics Since the beginning mathematical concepts and techniques such as arithmetic and geometry were created as tools with a particular purpose like counting sheep and measuring land areas Understanding those purposes leads to a greater understanding of why mathematics developed as it did Later mathematical concepts came from a process of abstracting and generalizing earlier mathematics This process of abstraction is very powerful but often comes at the price of intuition and understanding This book strives to give a guided tour of the development of various branches of mathematics and what they're used for that will give the reader this intuitive understanding Features Treats mathematical techniques as tools and areas of mathematics as the result of abstracting and generalizing earlier mathematical tools Written in a relaxed conversational and occasionally humorous style making it easy to follow even when discussing esoterica Unravels how mathematicians think demystifying math and connecting it to the ways non mathematicians think and connecting math to people's lives Discusses how math education can be improved in order to prevent future generations from being turned off by math

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The

Mathematics of Relativity for the Rest of Us Louis S. Jagerman,2001 The Mathematics of Relativity for the Rest of Us is intended to give the generally educated reader a thorough and factual understanding of Einstein's theory of relativity including the difficult mathematical concepts even if the reader is not trained in higher mathematics

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