

4.5 Solving Related Rates

1. If $y^2 = 3x^4 + 6x$, find $\frac{dy}{dx}$ when $x = 1$, and $\frac{dx}{dt} = 2$.

Guidelines to solving related rate problems

1. Draw a picture.
2. Make a list of all known and unknown rates and quantities.
3. Relate the variables in an equation.
4. Differentiate with respect to time.
5. Substitute the known quantities and rates and solve.

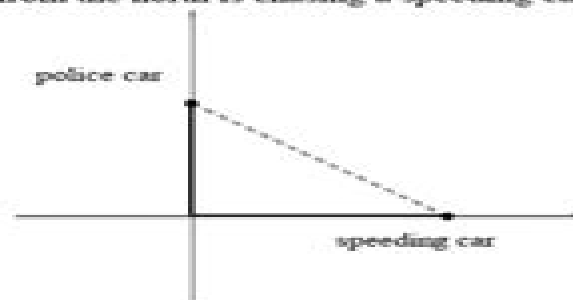
IMPORTANT: Substituting a non-constant quantity before differentiating is not allowed!

Rectangle Example

The width of a rectangle is increasing at a rate of 2 cm/sec and its length is increasing at a rate of 3 cm/sec. At what rate is the area of the rectangle increasing when its width is 4 cm and its length is 5 cm?

Triangle Example

A police car, approaching a right-angled intersection from the north is chasing a speeding car that has turned the corner and is now moving straight east. When the police car is 0.6 miles north of the intersection and the car is 0.8 miles to the east, the police determine with a radar gun that the distance between them and the car is increasing at 20 mph. If the police car is moving at 60 mph at the instant of measurement, what is the speed of the car?



Calc Clue Packet

Michal Rosen-Zvi



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NASA Technical Note ,1971 *Cooperative Problem-Solving Activities for Social Studies Grades 6-12* Michael Hickman,Erin O. Wigginton,2014-11-04 Give your students the opportunity to think discover and learn together in social studies Teamwork helps students strengthen individual retention improve performance and promote meaning making in the classroom To give adolescent minds practice in critical thinking the authors use their considerable teaching experience to present more than 40 problem solving activities that are ready for immediate use in the social studies classroom This updated edition of *Catch Them Thinking in Social Studies* demonstrates how to use collaborative learning strategies to fully engage students in meaning making *Cooperative Problem Solving Activities for Social Studies Grades 6 12* offers lessons in five areas of social studies instruction geography politics economics culture and history Each activity includes background information clue cards objectives tasks and worksheets This updated edition helps teachers Develop students decision making analysis and communication skills Foster teamwork and interdependent learning Construct cooperative problem solving activities using their own curriculum Through the activities in this book students will work together to learn about social topics while developing important real world skills Featuring current research and new activities this hands on resource helps teachers facilitate cooperative problem solving in social studies and provides teacher tips throughout the book

Building Success in Math Carol Langbort, Virginia H. Thompson, 1985 *Automated Shell Theory for Rotating Structures (astros)* Byron J. Foster, Jerrell M. Thomas, 1971 A computer program for analyzing axisymmetric shells with inertial forces caused by rotation about the shell axis is developed by revising the STARS II shell program The basic capabilities of the STARS II shell program such as the treatment of the branched shells stiffened wall construction and thermal gradients are retained **Magic made easy. By David Devant** David Devant, David Wighton, 1903 **Glencoe Mathematics** William Collins, 1999 *Small Group Lessons* Patricia Tuck, 1997 **The Publishers Weekly** , 1922 **Earth Book** AIMS Education Foundation, 2007 Using Earth system science study about the Earth s spheres and the interactions within and among them *Genii* , 1946 Card Magic John Northern Hilliard, 1945 **Multicast Forwarding and Application State Scalability in the Internet** Tina Han-Ting Wong, 2000 **PC/Computing** , 1989-03 Personal Computing , 1989-05 **Mathematics Teaching in the Middle School** , 2009-02 *Microtimes* , 1989 The Calcutta Law Journal , 1913

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