Language of Mathematics Assignment 4 Related Rates

Learning Objectives

- Develop an intuitive understanding of Related Rates.
- Able to explain the mathematical concept of Related Rates in a well-organized and well written report.

Grading rubric for report

Criteria	5 pts	2 pts	1pt or 0pts
Learning	Clearly shows the learn-	Not all learning objectives	None of the learning objectives
Objectives	ing objectives and topic	are achieved and/or topic is	are achieved and/or shows a
	is thoroughly covered.	not thoroughly covered.	misunderstanding of the topic.
Report	Well-organized, well	Not well written and/or con-	Shows very little information,
quality	written, displays orig-	tains a few grammatical or	and contains many grammati-
	inal thought, ideas	spelling errors, but shows	cal or spelling errors. Little
	follow and relate to	original thought and ideas	effort made, looks like it was
	each other in a logical	follow and relate to each	prepared night before or copied
	way.	other in a logical way.	from the Internet or another
			student. Not well written, ideas
			do not follow in a logical way.

Report

Answer the following questions in your report. Your report should be more than a few sentences but less than a page. Do not restate definitions in the textbook. Use your own words.

- What is a Related Rate? Proved a definition in your own words.
- Develop a strategy (outline a step by step procedure) for solving a Related Rate problem.
- Use your strategy and solve the following problem: A dinghy is pulled toward a dock by a rope from the bow of the boat through a ring on the dock 6 ft above the bow. If the rope is hauled in at the rate of 2 ft/sec, how fast is the boat approaching the dock when 10 ft of rope are out?

Submission

Your instructor will give you details on submitting your report.