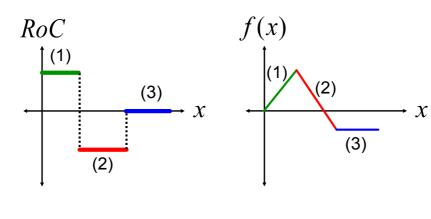
Graphical Models for Rates of Change

- (1) For a positive rate of change (positive slope), the function is increasing.

 (2) $x = x^2 + x^2 + 3$
- (2) For a negative rate of change (negative slope), the function is decreasing.
- (3) For zero rate of change (zero slope, horizontal line), the function is constant.

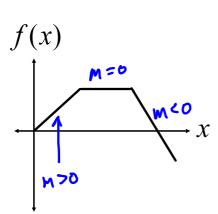


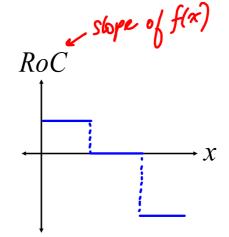
Sep 11-10:08 PM

Graphical Models for Rates of Change

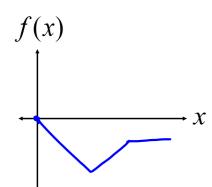
Ex.1 For each situation, sketch the graph for the original function and the rate of change.

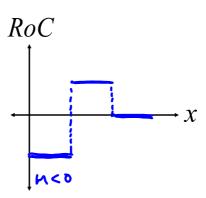
(a) function increasing at a constant rate, then constant, then decreasing at a constant rate



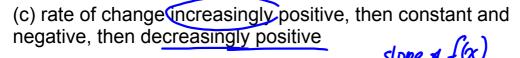


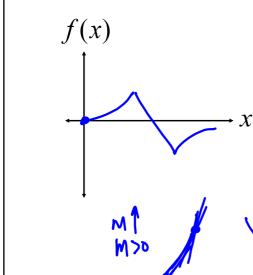
(b) rate of change constant and negative, then constant and positive, then zero





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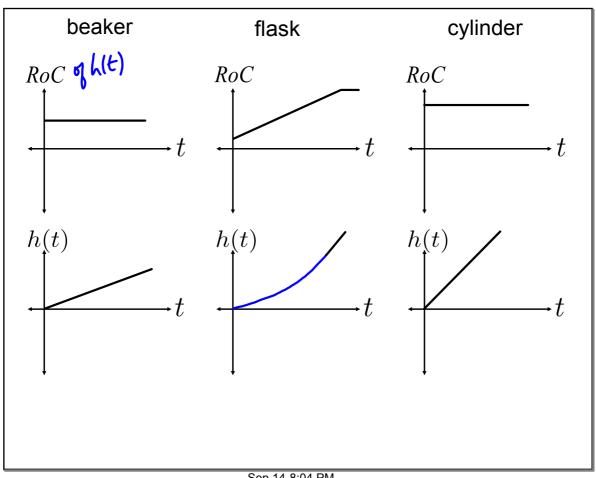


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Assigned Work:

p.103 # 3, 5, 9, 10 *

p.111 # 2, 10, 13

extra pradice

Sep 9-9:41 PM