1.1 A Preview of Calculus (1920508)

Points	1 2 3 4 5 6 7 8 9 10 0/2 0/6 0/2 0/2 0/4 0/6 0/6 0/18 0/3 0/3	Total 0/52
0/2 poir	nts	LarCalc9 1.1.001.MI. [1385893]
Consi	der the following problem.	
	Find the distance traveled in 20 sec	conds by an object traveling at a constant velocity of 26 feet per second.
Decid	e whether the problem can be solved	using precalculus, or whether calculus is required.
0	The problem can be solved using pre	ecalculus.
۲	The problem requires calculus to be	solved.
	e problem can be solved using precalcu erical approach to estimate the solution	lus, solve it. If the problem seems to require calculus, use a graphical or n.
-	tion or Explanation	
Solut		

This question has several parts that must be completed sequentially. If you skip a part of the question, you will not receive any points for the skipped part, and you will not be able to come back to the skipped part.

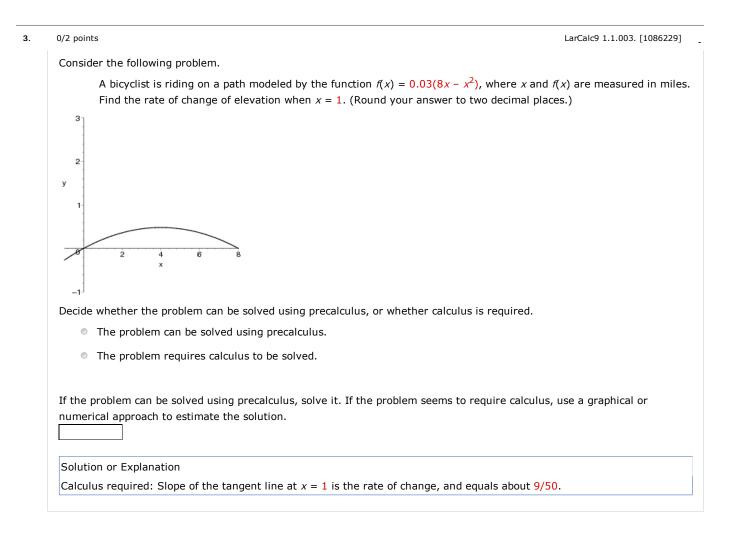
Tutorial Exercise

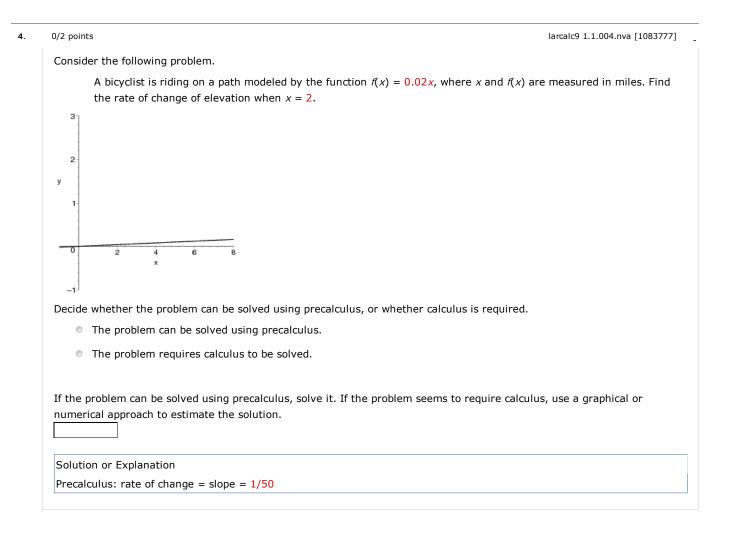
Consider the following problem.

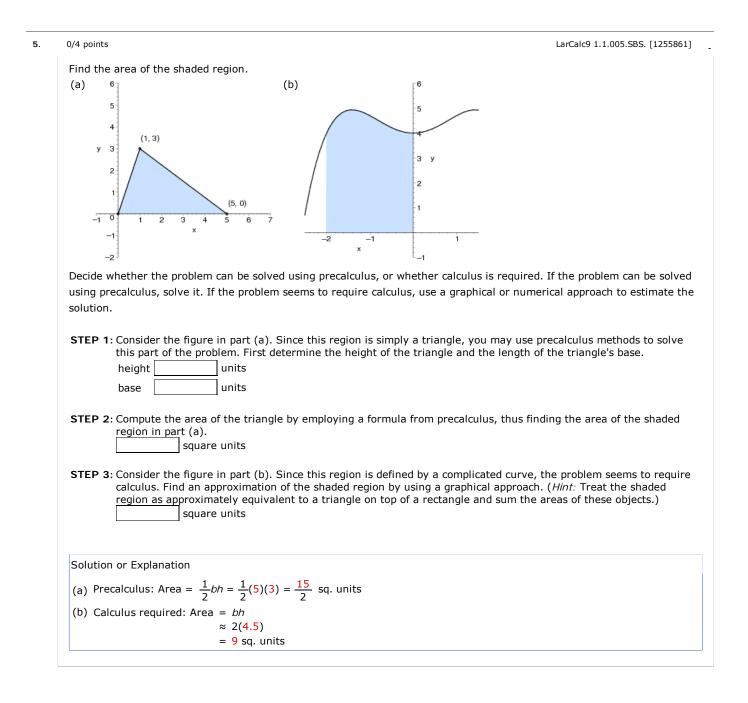
Find the distance traveled in 27 seconds by an object traveling at a constant velocity of 25 feet per second.

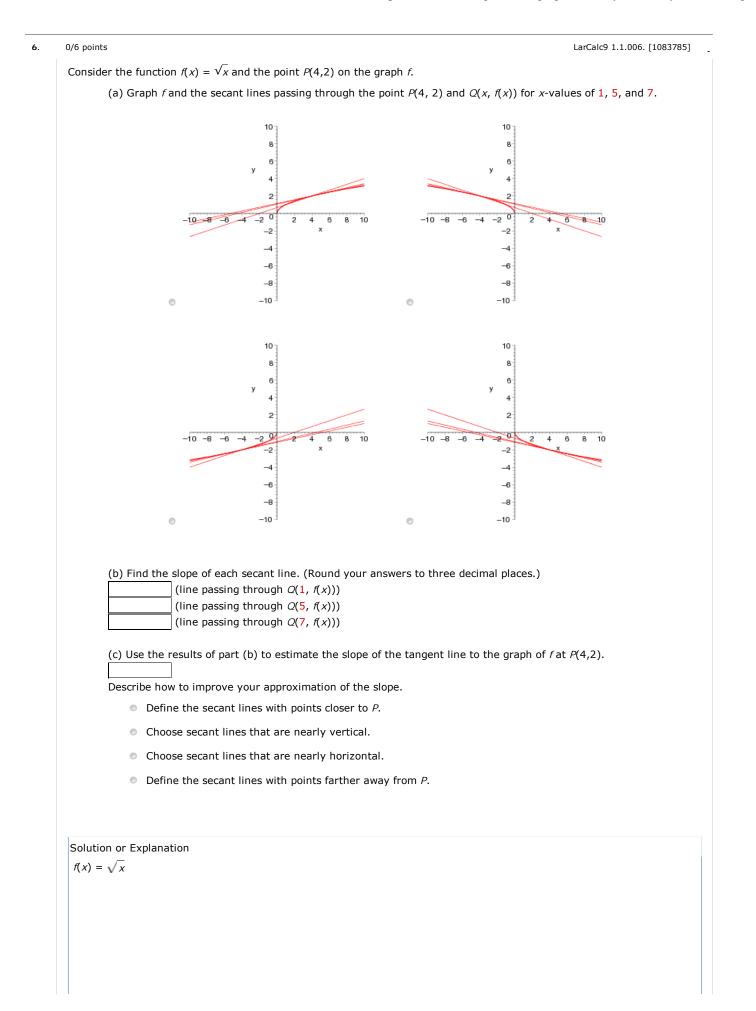
Decide whether the problem can be solved using precalculus, or whether calculus is required.

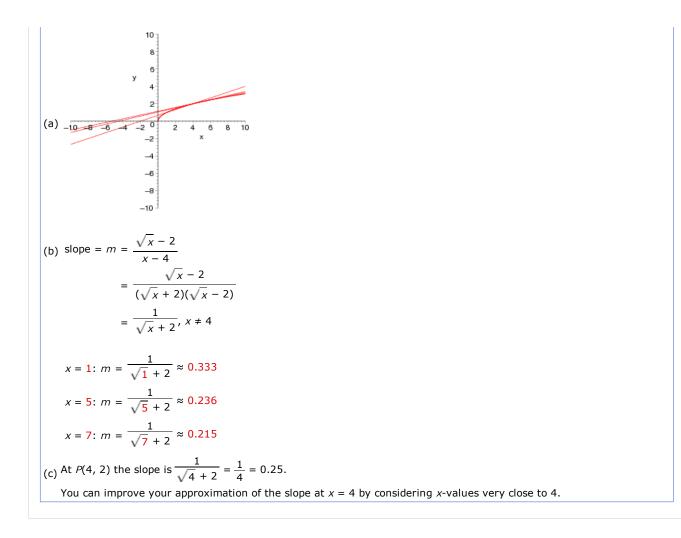
If the problem can be solved using precalculus, solve it. If the problem seems to require calculus, use a graphical or numerical approach to estimate the solution.

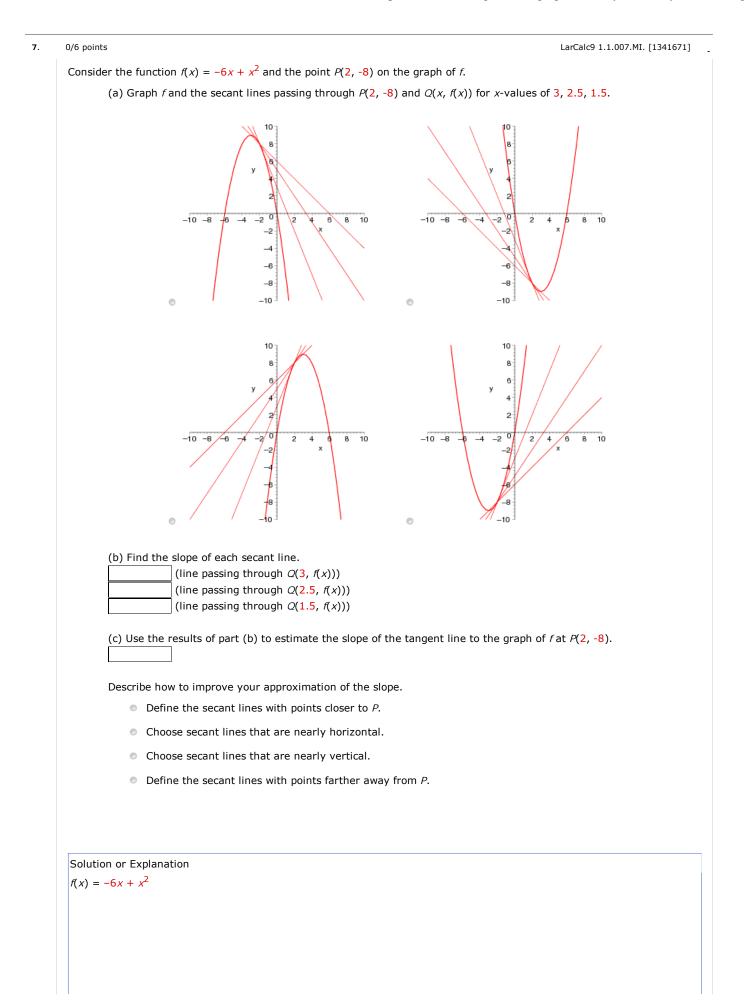


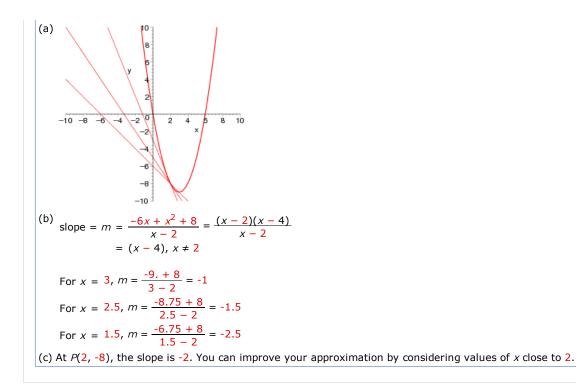












8. 0/18 points

LarCalc9 1.1.007.MI.SA. [1419772]

This question has several parts that must be completed sequentially. If you skip a part of the question, you will not receive any points for the skipped part, and you will not be able to come back to the skipped part.

Consider the function $f(x) = 4x - x^2$ and the point P(2, 4) on the graph of f.

Part (a)

Graph f and the secant lines passing through P(2, 4) and Q(x, f(x)) for x-values of 3, 2.5, 1.5.

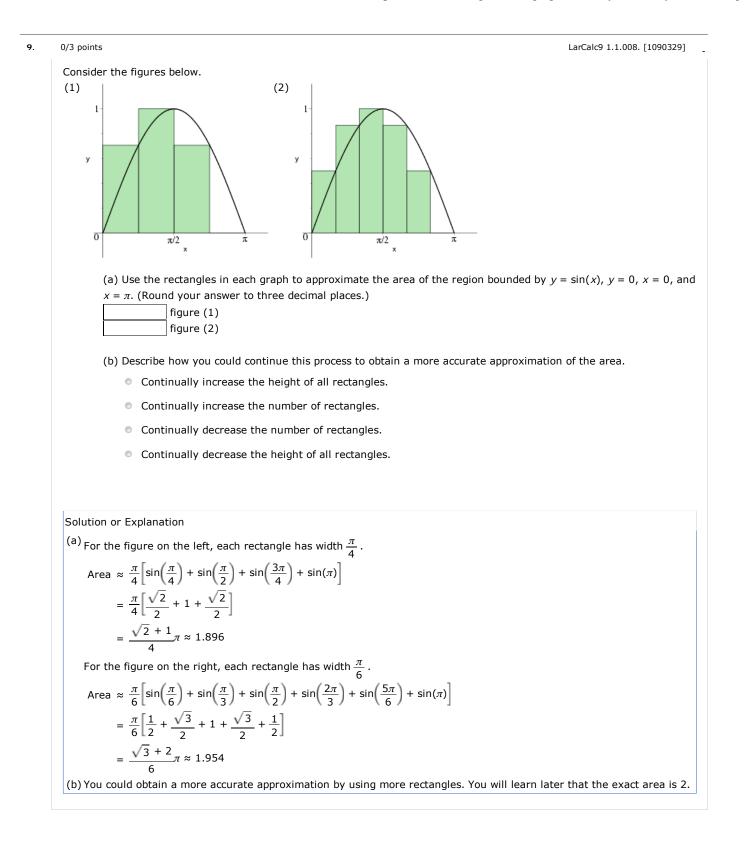
Part (b)

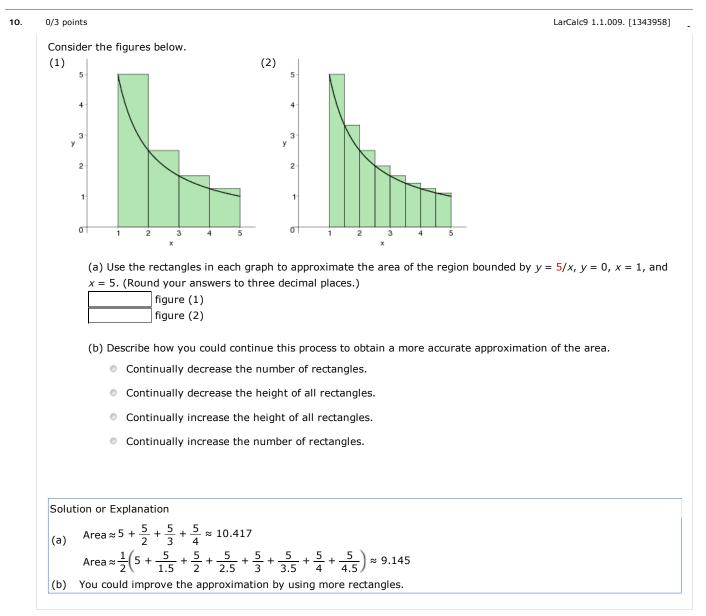
Find the slope of each secant line.

Part (c)

Use the results of part (b) to estimate the slope of the tangent line to the graph of f at P(2, 4).

Describe how to improve your approximation of the slope.





Assignment Details