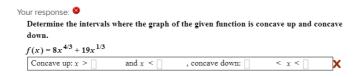
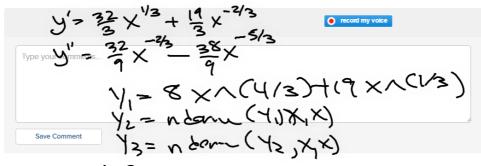
day 30 May 05, 2016



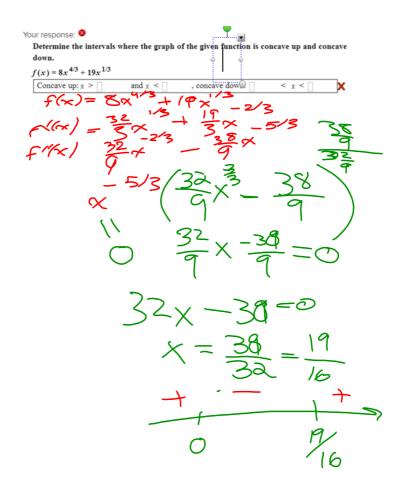


calc 2: zero

left: 1/100 1stox

right: 2 x-y3/nederiv(y3,x,x)

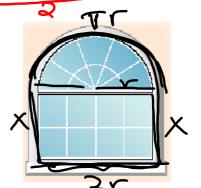
guess: 2

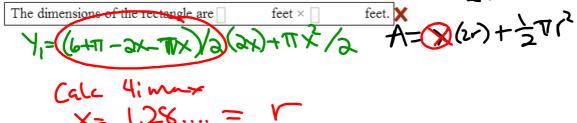


Sec. Ex. 31 - 3.7 Section Exercise 31

Your response: 8

A Norman window has the outline of a semicircle on top of a rectangle, as shown in the figure. Suppose there is  $6 + \pi$  feet of wood trim available. Discuss why a window designer might want to maximize the area of the window. Find the dimensions of the rectangle (and, hence, the semicircle) that will maximize the area of the window. Round all values in your answer to two decimal places if needed.



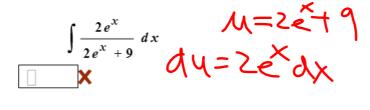


11.	Award: 0 out of 10.00 points	O Adjust points	Adjust credit for all students.	Show correct answer	
	Sec. Ex. 9 - 4.1 Section Exercise 9		30x3(x3)	30x3(x3)-11x3	
	Your response: S  Find the general antiderivative.	Use c as the constant of into	$-\frac{-\sqrt{3}}{2}$	$3 - 11 \times \frac{1}{2}$	
	$\int \frac{30x^{1/3} - 11}{x^{2/3}} dx$	$)$ $\times$ <sup>3</sup> 1	1 1.1.3	_ > > \/3	
	×	×3 >	(4) X	_>>X +(	

## Sec. Ex. 25 - 4.1 Section Exercise 25

Your response: 8

Find the general antiderivative.



## Sec. Ex. 35 - 4.5 Section Exercise 35

Your response:

Find the position function s(t) given the acceleration function and an initial value.

$$a(t) = 12 - t$$
,  $v(0) = 4$ ,  $s(0) = 0$ 

$$s(t) = 6t^{2} - \frac{t^{3}}{6} + 4t$$

$$f(t) = 12 - L$$
 $f(t) = 12t - 1/2 + C$ 
 $f(t) = 12t - 1/2 + C$ 
 $f(t) = 6t^2 - 1/2 + 4t + C$ 
 $f(t) = 6t^2 - 1/2 + 4t$