

Find y'  
Ex 1) 
$$y = \sin x - \tan x + 5x$$
  
 $y = \cos x - \sec^2 x + 5$   
Ex 2)  $y = x \csc x$   
 $u \cdot v' + v \cdot u'$   
 $y' = x \cdot \csc x + \csc x \cdot 1$   
 $y' = (\sec x) (-x \cot x + 1)$ 







$$\frac{23}{23} = 5 = t^{3} - 6t^{2} + 9t$$

$$a(t) = ? \qquad v(t) = 0$$

$$v = 3t^{2} - (3t + 9)$$

$$a = 6t - 12 \rightarrow a(1) = 6 \cdot 1 - 13 = -6$$

$$3t^{2} - (3t + 9) = 0$$

$$a(3) = 6 \cdot 3 - 13 = 6$$

$$3(t^{2} - 4t + 3) = 0$$

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(9) 
$$S = t^2 - 3t + 2$$
  
Change disection when  $s' = 0$   
 $s' = v = 2t - 3$   
 $v = 2t - 3$   
 $0 = 2t - 3$   
 $3 = \frac{2}{2}t$   
 $t = 1.2$   
 $+ 1.5$