



Ex 3) 
$$x = 3\cos(2t)$$
  
 $y = 2\sin(3t)$   
Find  $\frac{dy}{dx}$   $t = \pi/3$ 

Ex 4) 
$$x = 3t^{2} + 2$$
  
 $y = t^{3}$   
Find  $\frac{dy}{dx}$   $t = 1$ 

Γ

1. 
$$\frac{d}{dx} \sin^2(x^3)$$
  
2.  $f(x) = \sec(2x)$ . Find f'( $\pi/6$ )  
3. Write an equation for the tangent to the graph of  $y = x(1 - 2x)^2$  at  $(1, 1)$   
A.  $y=2x+1$  B.  $y=-4x+5$   
C.  $y = -2x-2$  D.  $y = 5x-4$ 

4.  $y = (1 + \cos^2 (7x))^3$