



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 $\frac{dy}{dx}$ $t = 1$

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