

Feb 19-8:47 AM

Find 
$$\frac{dy}{dx}$$

$$y \cos x = x^2 + y^2$$

$$\frac{d}{dx} \left[ y \cos x \right] = \frac{d}{dx} \left[ x^2 + y^2 \right]$$

$$\frac{dy}{dx} \cdot \cos x + y \cdot \frac{d}{dx} \left[ \cos x \right] = \frac{d}{dx} \left[ x^2 \right] + \frac{d}{dx} \left[ y^2 \right]$$

$$\frac{dy}{dx} \cdot \cos x + y \cdot \frac{d}{dx} \left[ \cos x \right] = 2x + y \sin x$$

$$\left[ (\cos x - 2y) \frac{dy}{dx} = 2x + y \sin x \right]$$

$$\frac{dy}{dx} = \frac{2x + y \sin x}{\cos x - 2y}$$

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$$\frac{dy}{dx} = x \frac{\sin y^2}{4x} \left[ x \sin y^2 \right]$$

$$\frac{dy}{dx} \cdot \frac{\sin x^2}{4x} = \frac{d}{dx} \left[ x \sin y^2 \right]$$

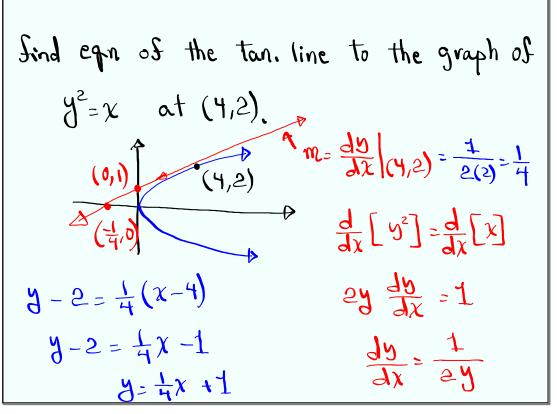
$$\frac{dy}{dx} \cdot \frac{\sin x^2}{4x} + \frac{1}{2} \frac{\sin y^2}{4x} + \frac{1}{2} \frac{\sin y^2}{4x} + \frac{2xy \cos x^2}{4x} \right]$$

$$\frac{dy}{dx} = \frac{\sin y^2}{\sin x^2} - 2xy \cos x^2$$

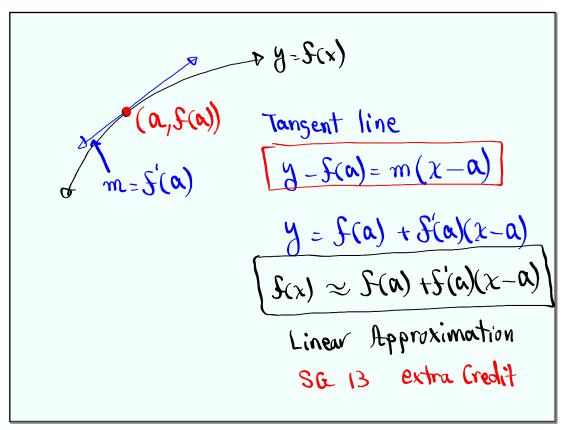
$$\frac{dy}{dx} = \frac{\sin y^2}{\sin x^2} - 2xy \cos x^2$$

$$\frac{dy}{dx} = \frac{\sin y^2}{\sin x^2} - 2xy \cos x^2$$

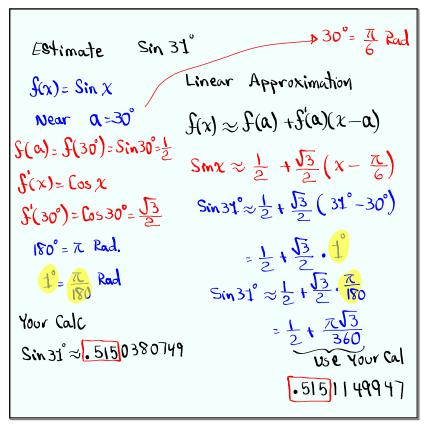
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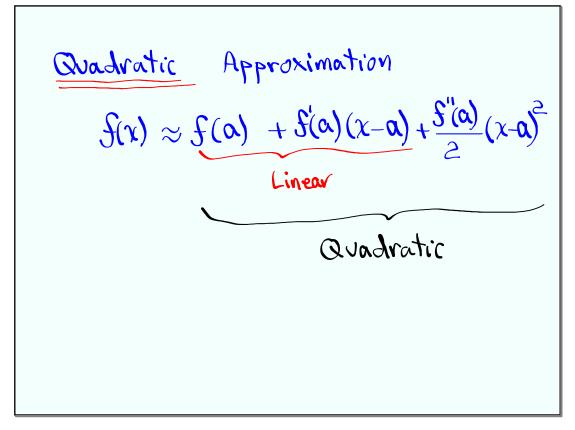
Evaluate 
$$\frac{1}{100} \approx \frac{1}{19} = \frac{1}{3} = .3$$

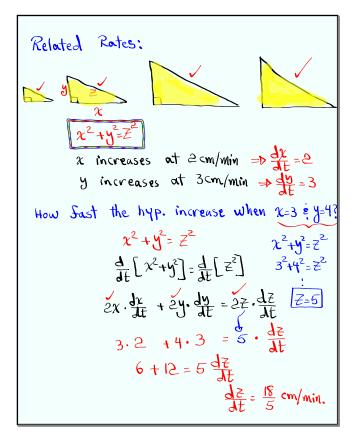
Using Calc

L.A.

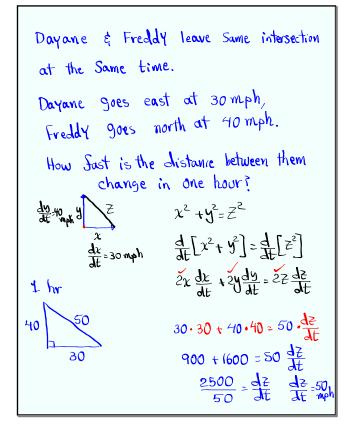
 $\frac{1}{100} \approx .3162 27766$ 
 $f(x) \approx f(x) + f(x)(x-a)$ 
 $f(x) = \frac{1}{12}$ 
 $f(x)$ 

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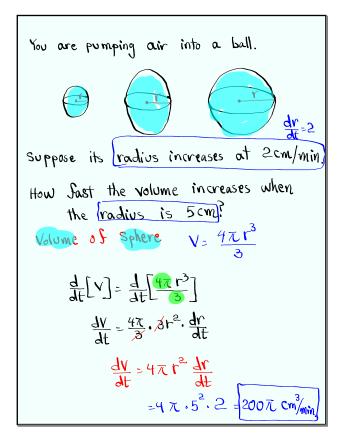




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