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1103

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Nombres y Apellidos

Curso

Fecha

CALCULO DE THOMAS

Ej.43 SECCION 3.6

$$f(\theta) = \left(\frac{\sin(\theta)}{1+\cos(\theta)} \right)^2$$

$$f'(\theta) = \frac{d}{d\theta} \left(\left(\frac{\sin(\theta)}{1+\cos(\theta)} \right) \right)^2$$

$$f'(\theta) = \frac{d}{d\theta} \left(\left(\frac{\sin(\theta)^2}{(1+\cos(\theta))^2} \right) \right)^2$$

$$f'(\theta) = \frac{\frac{d}{d\theta}(\sin(\theta)^2) \times (1+\cos(\theta))^2 - \sin(\theta)^2 \times \frac{d}{d\theta}((1+\cos(\theta))^2)}{((1+\cos(\theta))^2)^2}$$

$$f'(\theta) = \frac{2\sin(\theta)\cos(\theta) \times (1+\cos(\theta))^2 - \sin(\theta)^2 \times 2(1+\cos(\theta)) \times (-\sin(\theta))}{((1+\cos(\theta))^2)^2}$$

$$f'(\theta) = \frac{2\sin(\theta)}{(1+\cos(\theta))^2}$$

ENLACE

<https://docs.google.com/document/d/1ls3Lu6KQ9EvxDiD447x4fAsepBVolsC8k1WtCD7hWvc/edit?usp=sharing>