

## **"MATERIA".CÁLCULO**

**NOMBRE DEL DOCENTE. JORGE ENRIQUE ALBORES  
AGUILAR.**



**PRESENTA: EJERCICIOS**

**ALUMNO: CITLALI LÓPEZ JIMÉNEZ .**

**CUATRIMESTRE**

**BACHILLERATO EN ENFERMERIA**

**ESCOLARIZADO**

Citlali López J.

$$1: y' = \text{ARCSIN}(2x^2+2)$$

$$\frac{2x}{(2x^2+2) \sqrt{(2x^2+2)^2-1}}$$

$$\frac{2x^2}{2x^2+2 \sqrt{2x^2+2x^4-1}}$$

$$2: y' = \text{ARCCOS} \sqrt{x^3}$$

$$\frac{2x}{\sqrt{x^3} \sqrt{x^3}}$$

$$\frac{2x}{\sqrt{x^3} \sqrt{x^3-1}} = \frac{1}{\sqrt{x^3-1}}$$

$$3: y' = \text{ARCTANG}(7x^3+1)$$

$$\frac{2x}{\sqrt{(7x^3+1)^2-1}}$$

$$\frac{2x^2}{\sqrt{(7x^3+1)^2}}$$

$$4: y' = \text{ARCSIN}(9x^3+8)$$

$$\frac{2x}{\sqrt{(9x^3+8)^2-1}}$$

$$\frac{2x^2}{\sqrt{(9x^3+8)^2-1}}$$

$$5: y' = \text{ARCCSC } 2x^9$$

$$\frac{2x}{2x \sqrt{(2x^9)^2 - 1}}$$

$$= \frac{2x}{(2x^{18}) - 1} = \frac{1}{\sqrt{2x^{18} - 1}}$$

$$9: y' = \text{ARCCSC } 12x^9$$

$$\frac{2x}{\sqrt{(12x^9)^2 - 1}}$$

$$\frac{2x}{\sqrt{12x^{18} - 1}}$$

$$= \frac{1}{\sqrt{12x^{18} - 1}}$$

$$6: y' = \text{ARCTANG } \sqrt{2x}$$

$$\frac{2x}{\sqrt{(2x)^2 - 1}}$$

$$= \frac{2x^2}{\sqrt{2x + \sqrt{2} - 1}}$$

$$10: y' = \text{ARCTANG } \sqrt{2x^3}$$

$$\frac{2x}{\sqrt{(2x^3)^2 - 1}}$$

$$= \frac{2x}{\sqrt{2x^6 - 1}}$$

$$7: y' = \text{ARCSEC } 4x^9$$

$$\frac{2x}{\sqrt{(4x^9)^2 - 1}}$$

$$= \frac{2x}{\sqrt{4x^{18} - 1}}$$

CITLALI LOPEZ

$$8: y' = \text{ARCTANG } 9x^3$$

$$\frac{2x}{\sqrt{(9x^3)^2 - 1}}$$

$$\frac{2x}{\sqrt{9x^6 - 1}}$$