

"MATERIA". CÁLCULO

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



PRESENTA:

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CUATRIMESTRE

LICENCIATURA

SEMIESCOLARIZADO

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CITLALI LÓPEZ J.

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

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

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

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

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

$$\frac{2x}{\sqrt{(7x^3 + 1)^2 - 1}}$$
$$\frac{2x^2}{\sqrt{(7x^3 + 1)^6}}$$

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

$$\frac{2x}{\sqrt{(9x^3 + 8)^2 - 1}}$$
$$\frac{2x^2}{\sqrt{(9x^3 + 8)^6 - 1}}$$

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

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

$$= \frac{2x}{(2x^{18}) - 1} = \frac{1}{2x^{17} - 1}$$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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