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Nombre del profesor: ALBORES AGUILAR JORGE ENRIQUE

Nombre del trabajo: ‘'EJERCICIOS’’

Materia: CALCULO
Grado: ENFERMERIA 4TO SEMESTRE BACHILLERAT

Grupo: A

Comitán de Domínguez Chiapas a 3de julio de 2020.

- $y' = \text{arcsen}(2x^2+2) = \frac{4x}{\sqrt{1-(2x^2+2)^2}} = \frac{4x}{\sqrt{-4x^4+4}}$
- $y' = \text{arccsc } x^3 = -\frac{1}{|x^2|\sqrt{x^2-1}} = \frac{-1}{|x|\sqrt{3x^2-1}} = \frac{-1}{\sqrt{3x^2-1}}$
- $y' = \text{arctang}(7x^5+1) = \frac{343x^2}{1+(7x^3+1)^2} = \frac{343x^2}{1+49x^5+1}$
- $y' = \text{arccse } 2x^9 = \frac{512x^8}{512x^8\sqrt{(2x^9)^2-1}} = -\frac{512x^8}{512x^8\sqrt{4x^{18}-1}} = -\frac{1}{\sqrt{4x^{18}-1}}$
- $y' = \text{arcsen}(9x^3+8) = \frac{729}{\sqrt{1-(9x^3+8)^2}} = \frac{729}{\sqrt{1-81x^5+64}}$
- $y' = \text{arctang}\sqrt{2x} = \frac{(2x)^{1/2}}{\sqrt{1+(\sqrt{2x})^2}} = \frac{(2x)^{1/2}}{1+2x}$
- $y' = \text{arcsce } 4x^9 = \frac{262.144}{4x^9\sqrt{(4x^9)^2-1}} = \frac{262.144}{4x^9\sqrt{16x^{18}-1}}$
- $y' = \text{arctang } 9x^8 = \frac{43,046,721x^7}{1+(9x^8)^2} = \frac{43,046,221x^7}{1+81x^{10}}$
- $y' = \text{arccse } 12x^9 = -\frac{5,159,780,352}{5,159,780,352\sqrt{(12x^9)^2-1}} = \frac{-1}{\sqrt{144x^{18}-1}}$
- $y' = \text{arctang}\sqrt{2x^3} = \frac{2x}{1+(\sqrt{2x^3})^2} = \frac{2x}{1+2x^3}$

Luis Jaime Madrid Sanchez