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Nombre del trabajo: ‘’TAREA’’

Materia: CALCULO

Grado: ENFERMERIA 4TO SEMESTRE BACHILLERATO

Grupo: A

Comitán de Domínguez Chiapas a 27 de febrero de 2020.

- $F(x) = \frac{d(\text{arccosec } u)}{dx} = \frac{x}{x\sqrt{x^2-1}} = \frac{1}{\sqrt{x^2-1}}$

- $F(x) = \text{arccosec } 5x$

$$\frac{d(\text{arccosec } 5u)}{dx} = \frac{5}{5\sqrt{(5x)^2-1}} = \frac{5}{5\sqrt{25x^2-1}} = \frac{1}{\sqrt{25x^2-1}}$$

- $F(x) = \text{arccosec } 7x$

$$\frac{d(\text{arccosec } 7u)}{dx} = \frac{7}{7\sqrt{(7x)^2-1}} = \frac{7}{7\sqrt{49x^2-1}} = \frac{1}{\sqrt{49x^2-1}}$$

- $F(x) = \text{arccosec } x^4$

$$d(\text{arccosec} = \frac{4x^3}{4x^3\sqrt{(x^4)^2-1}} = \frac{4x^3}{4x^3\sqrt{x^8-1}} = \frac{1}{\sqrt{x^6-1}}$$

- $F(x) = \text{arccosec } 2x^7$

$$\frac{d(\text{arccosec } 2u^7)}{dx} = \frac{128x^6}{128x^6\sqrt{(2x^7)^2-1}} = \frac{128x^6}{128x^6\sqrt{4x^9-1}} = \frac{1}{\sqrt{4x^7-1}}$$

- $F(x) = \text{arccosec } 6x^6$

$$\frac{d(\text{arccosec } 6u^6)}{dx} = \frac{46.656x^5}{46.656x^5\sqrt{(6x^6)^2-1}} = \frac{46.656x^5}{46.656x^5\sqrt{36x^8-1}}$$

$$= \frac{1}{\sqrt{36x^8-1}}$$

- $f(x) = \text{arccosec } \frac{3x^4}{7}$

$$d(\text{arccosec } \frac{3u^4}{7}) = \frac{\frac{12x^3}{7}}{\frac{12x^3}{7}\sqrt{\left(\frac{3x^4}{7}\right)2-1}} = \frac{\frac{12x^3}{7}}{\frac{12x^3}{7}\sqrt{\frac{9x^6-1}{49}}} =$$

$$\frac{1}{\sqrt{\frac{9x^6-1}{49}}}$$