



Calculo

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Presenta: cejercicio

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

$$F(x) = \operatorname{arccosec} 7x$$

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

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

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

$$F(x) = \operatorname{arccosec} x$$

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

$$u = x$$

$$F(x) = \operatorname{arccosec} 5x$$

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