

Derivada - Polinomio

Solución

$$\frac{d}{dx} \left[x^{-2} - \sqrt[3]{x^2} + x + \frac{1}{\sqrt{x}} \right]$$

$$\frac{d}{dx} \left[x^{-2} - x^{\frac{2}{3}} + x + x^{-\frac{1}{2}} \right]$$

$$\frac{d}{dx} \left[x^{-2} \right] - \left[x^{\frac{2}{3}} \right] + [x] + \left[x^{-\frac{1}{2}} \right]$$

$$-2x^{-3} - \frac{2}{3} x^{\frac{2}{3} - \frac{3}{3}} + 1x^0 + \left(-\frac{1}{2} x^{-\frac{1}{2} - \frac{2}{2}} \right)$$

$$-2x^{-3} - \frac{2x^{-\frac{1}{3}}}{3} + 1 - \frac{x^{-\frac{3}{2}}}{2}$$

Bit Planet

$$\ast \sqrt[3]{x^2} = x^{\frac{2}{3}}$$

$$\ast \sqrt{x^2} = x^{\frac{2}{2}}$$

$$\ast \frac{1}{\sqrt{x}} = \frac{1}{x^{\frac{1}{2}}}$$

$$\ast \frac{1}{x^{\frac{1}{2}}} = x^{-\frac{1}{2}}$$

$$\ast \frac{d}{dx} x^n = nx^{n-1}$$