

$$\int_{-2}^1 \left( \frac{3x^2 + 2x - 1}{3} \right) dx \rightarrow \int \frac{3x^2}{3} + \int \frac{2x}{3} - \int \frac{1}{3} = \frac{x^3}{3} + \frac{x^2}{3} - \frac{x}{3} + c$$

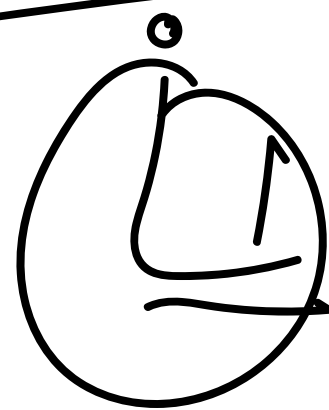
$$\hookrightarrow \frac{x^2}{2} \cdot \frac{2}{3} = \frac{2x^2}{6} = \frac{x^2}{3}$$

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

$$\left[ \frac{-8 + 2 + 2}{3} \right] + \left[ \frac{1 + 1 - 1}{3} \right]$$

2P

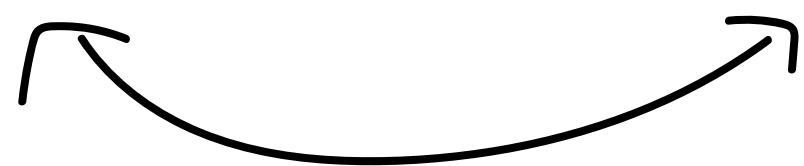
$$\frac{5}{3} + 1 = \frac{7}{3}$$



2P

$$\int_0^{\frac{\pi}{2}} (\sin x + \cos x) dx \quad -\cos + \sin$$

$$\left[ -\cos 0 + \sin 0 \right] - \left[ -\cos \frac{\pi}{2} + \sin \frac{\pi}{2} \right] = [-0 + 1] - [-1 + 0] = +1 - (-1) = 2$$



$$y' - 3x^2 + 2x - 1 = 0 \quad y\left(\begin{smallmatrix} 0 \\ x \end{smallmatrix}\right) = \begin{smallmatrix} 3 \\ y \end{smallmatrix}$$

$$\int y' = \int 3x^2 - 2x + 1 \rightarrow 3 \int x^2 - 2 \int x + \int 1 \rightarrow \frac{\cancel{3}x^3}{\cancel{3}} - \frac{\cancel{2}x^2}{\cancel{2}} + x = y^4$$

$$y = \overbrace{x^3 - x^2 + x}^0 + C \quad 3 = C$$