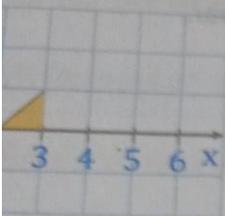


Matemáticas

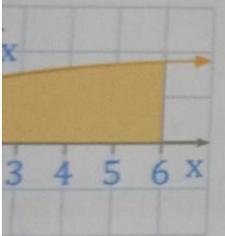
...gral, la representación del área bajo cada curva dada. Luego, calcula si es



$$\int_2^3 x \, dx$$

$$\frac{x^2}{2} \Big|_2^3 = \frac{3^2}{2} - \frac{2^2}{2} = \frac{9-4}{2} = \frac{5}{2}$$

$$= 2.5$$



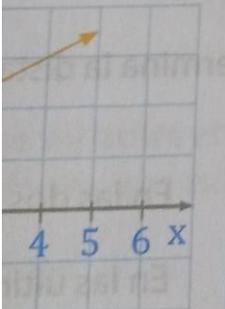
$$\int_0^6 3\sqrt{x} \, dx$$

$$= \int_0^6 x^{4/3} \, dx = \frac{1}{3} + 1 = \frac{1}{3} + \frac{3}{3} = \frac{4}{3}$$

$$= \int_0^6 \frac{x^{4/3}}{4} = \int_0^6 \frac{3x^{4/3}}{4} = 3 \frac{\sqrt[3]{x^4}}{4}$$

$$= \int_0^6 3 \sqrt[3]{x^4} \Big|_0^6 = \frac{3 \sqrt[3]{6^4}}{4} - \frac{3 \sqrt[3]{0^4}}{4} = \frac{3 \cdot 11}{4} = \frac{33}{4}$$

$$= \frac{33}{4} - \frac{0}{4} = \frac{33}{4}$$



$$\int_0^3 \frac{x}{2} + 1 \, dx$$

$$= \frac{x^2}{2} = \frac{x^2}{4} \Big|_0^3 = \frac{3^2}{4} - \frac{0^2}{4}$$

$$= \frac{9}{4} = 2.25$$

Profe no pude con los primeros