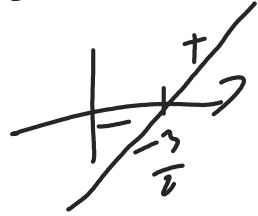


$$\lim_{x \rightarrow x_0} \frac{f(x) - f(x_0)}{x - x_0}$$

$$x_0 = -\frac{3}{2}$$

$$f' = 2x + 3$$

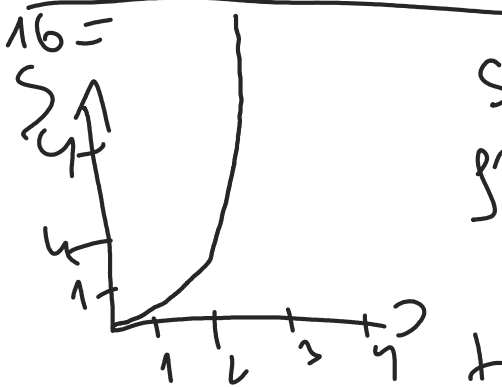
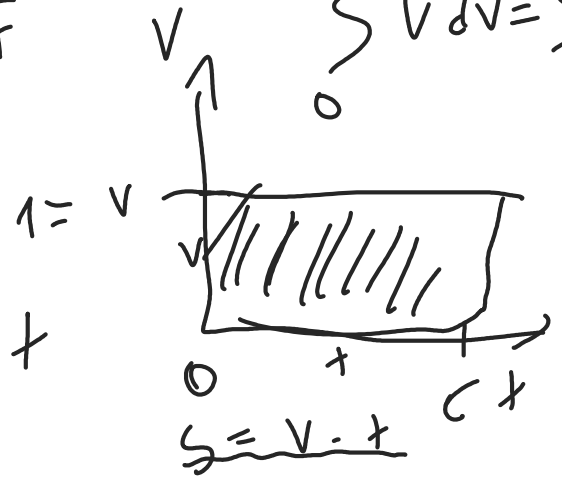
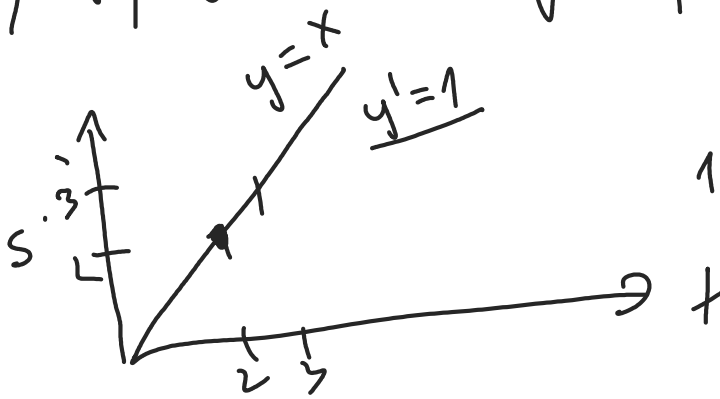


shpft vel acc

S, v, a

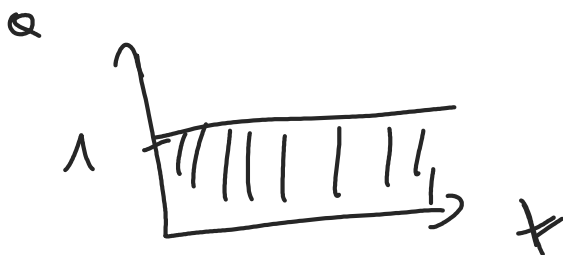
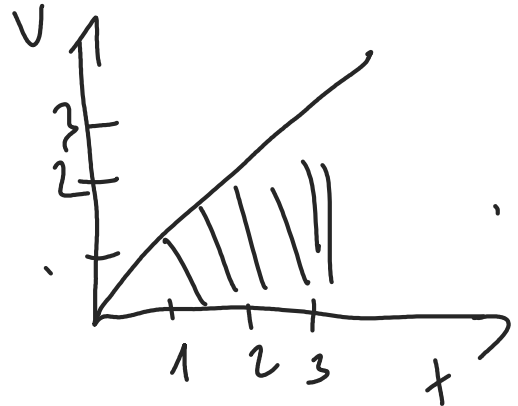
$$v = \frac{S}{t}$$

$$\int_0^S v dv = S$$



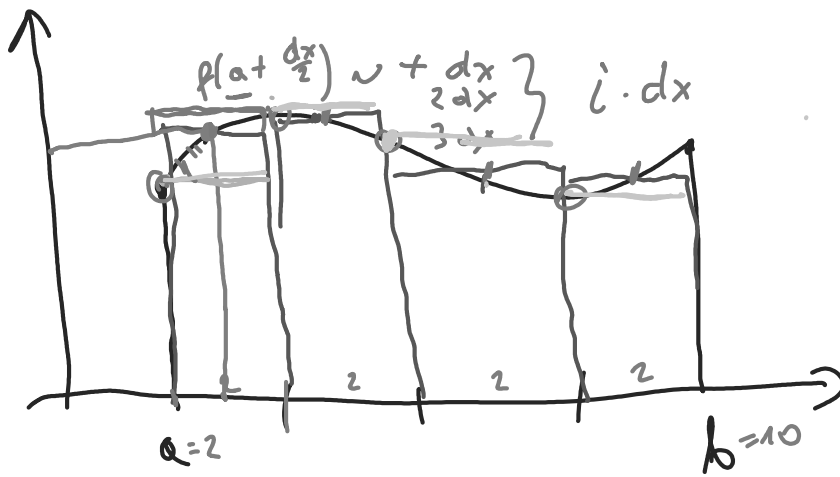
$$S = t^2$$

$$f(t) = t^2$$



$$\int a dt = v$$

$$\int \int a dt dt = S$$

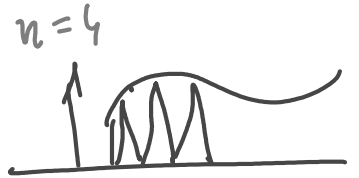


$$\frac{f(a) + f(b) + \dots}{2} \cdot dx$$

$$dx = (b-a)/n$$

$$p = a \cdot b$$

$$p = 2 \cdot$$



1) No katra uethi

$$\int x^n dx = \frac{x^{n+1}}{n+1}$$

$$\int \sqrt{x} + x^6 dx =$$

$$= \frac{2x^{\frac{3}{2}}}{\frac{3}{2}} + \frac{x^7}{7}$$

$$\int x^3 dx = \frac{x^4}{4}$$

$$\int 2x^7 dy = \frac{x^8}{8}$$

$$\int x^2 + 3x + 5 dx = \frac{x^3}{3} + \frac{3x^2}{2} + 5x$$

$$\int \frac{x^6 + x^3 - 7x}{x} dx = \frac{x^6}{6} + \frac{x^3}{3} - 7x$$

$$\int 3x^2 dx = \frac{3x^3}{3} = x^3$$

2. C. 62necone

$$\int_a^b f(x) = F(b) - F(a)$$

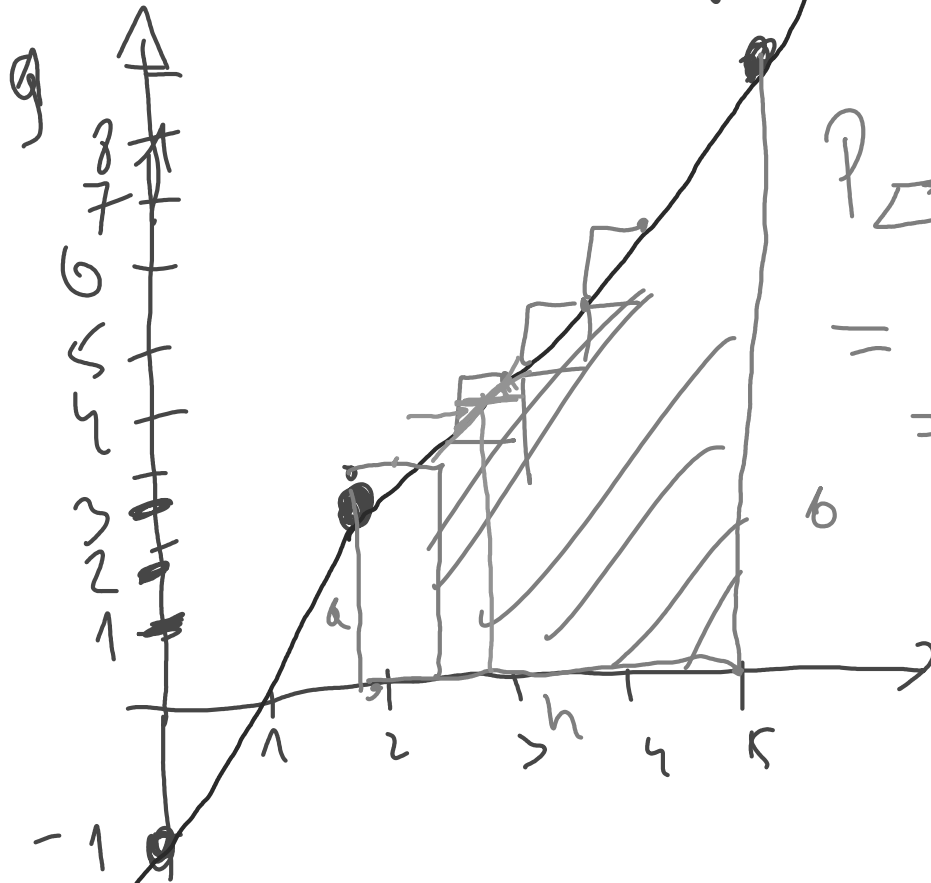
$$\int_1^3 3x^2 + 5 \, dx = \left[x^3 + 5x \right]_1^3 =$$

$$(3^3 + 5 \cdot 3) - (1^3 + 5 \cdot 1) = 42 - 6 = 36$$

051. PD

$$y = 2x - 1$$

i obl. polool yh
u need $\langle 2; 5 \rangle$



$$\begin{aligned} P_{\square} &= \frac{a+b}{2} \cdot h \\ &= \frac{3+9}{2} \cdot 3 \\ &= 18 \end{aligned}$$

$$\int_2^5 2x - 1 dx = x^2 - x \Big|_2^5 = 20 - 2 = 18 //$$