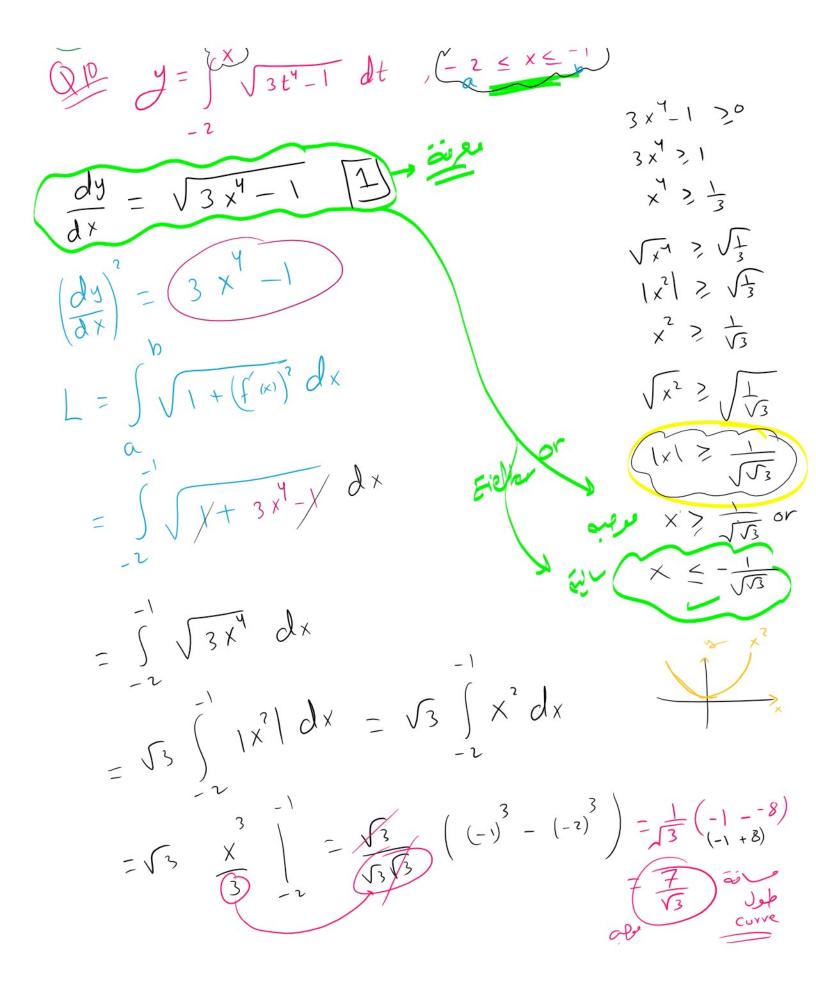
length curve y= x , x=0 to of, f cont. on [a,b] y = Vx3 cont on [0,4] $\int \sqrt{1+[f'(x)]^2} dx$ $\frac{dy}{dx} = \frac{3}{2} \times \frac{1}{x^2} = \frac{3}{2} \sqrt{x} \quad \text{cond. con [O/4]}$ Poly y = a, x + a, x - - + x, x + 9 poly of degree n $L = \int_{0}^{\infty} \sqrt{1 + (f(x))^{2}} dx = \int_{0}^{\infty} \sqrt{1 + \frac{q}{4}x} dx$ $n \in \mathbb{Z}^t$ $\int u \frac{y}{q} du = \frac{y}{q} \int u^{\frac{1}{2}} du = \frac{y}{q} \frac{u}{3}$ $= \frac{4}{6} \frac{2}{3} \sqrt{u^{3}} = \frac{8}{27} \left(\frac{10}{27} \right)$ 3t4-1 dt , E



$$|x| = 3 \Rightarrow x = 3 \text{ or } x = -3$$

$$|x| \leq 3 \Rightarrow -3 \leq x \leq 3$$

$$|x| \geq 3 \Rightarrow x \geq 3 \text{ or } x \leq -3$$

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$$|x| \leq 3 \Rightarrow x \geq 3 \Rightarrow x$$

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 $|x| = 3 \implies x = 3 \text{ or } x = -3$ $|x| \le 3 \implies -3 \le x \le 3$ $|x| \le 3 \implies x \ge 3 \text{ or } x \le -3$ $|x| \ge 3 \implies x \ge 3 \text{ or } x \le -3$