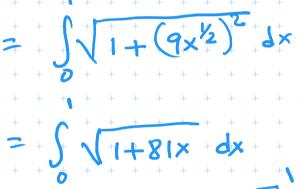
Parametrized curves:

~ < t < B + x,y:[x,β] → [R]

are continuous

Avc length:



$$= \frac{1}{2} + \frac{12}{243} + \left(\frac{1}{8} \times \frac{3}{2} - \frac{1}{1} \right) + \frac{1}{243} + \frac{1$$

Find the length of the arct of the curve
$$y = \frac{1}{2}x^2$$
 from the boint $P = (-1, \frac{1}{2})$ to $Q = (1, \frac{1}{2})$

= + \[\frac{1}{2} + \langle \(\frac{1}{1} + \langle \)