

19, 21, 47,

$$\textcircled{19} \quad \lim_{n \rightarrow \infty} \sum_{i=1}^n \underbrace{\sqrt{2x_i + x_i^2}}_h \underbrace{\Delta x}_w \quad [1, 8]$$

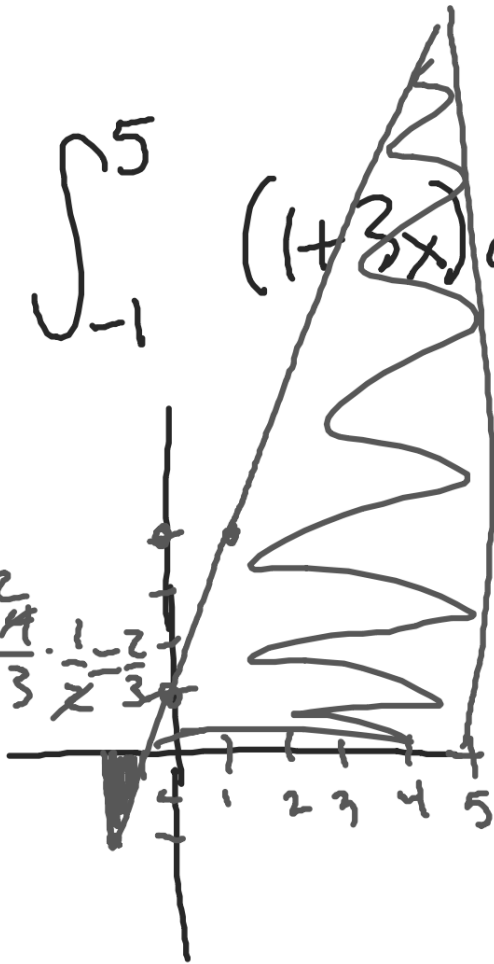
$$\int_1^8 \sqrt{2x + x^2} \, dx$$

(21)

$$\int_{-1}^5 (1+3x) dx$$

$$A = 2 \cdot \frac{2}{3} = \frac{4}{3} \cdot \frac{1}{2} = \frac{2}{3}$$

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



$$A = \frac{1}{2} \cdot 5 \frac{1}{3} \cdot 16$$

$$= \frac{1}{2} \cdot \frac{8}{3} \cdot 16 \cdot 16$$

$$= \frac{128}{3}$$

$$\frac{128}{3} + \frac{2}{3} = \frac{126}{3} \quad \begin{matrix} 1+3x=0 \\ x=-\frac{1}{3} \end{matrix}$$

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$$\int_{-2}^2 f(x) dx + \int_2^5 f(x) dx - \int_{-2}^{-1} f(x) dx$$

