

$$f(x) = 4 - x^{2}$$

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$$f(x) = 4 - x^{2} \qquad \frac{m! d_{pu,h} + x}{[-1,1]} \Delta x = \frac{1}{2}$$

$$A_{y} = \sum_{i=1}^{y} f(x_{i}) \Delta x$$

$$= [f(-1,75) + f(-25) + f(-25)$$

$$\begin{aligned}
A &= \lim_{n \to \infty} A_n = \lim_{n \to \infty} \sum_{i \ge 1} f(x_i) dx \\
P(x) &= \int_{|x|} f(x_i) dx \\
A_n &= \sum_{i \ge 1} f(x_i) dx \\
&= \sum_{i \ge 1} \left[2(\frac{1}{n}) - 2(\frac{1}{n})^2 \right] \frac{1}{n} \\
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&= \sum_{i \ge 1} \left[\frac{2(\frac{1}{n}) - 2(\frac{1}{n})^2}{n^2} \right] = \frac{2}{n^2} \sum_{i \ge 1} \frac{1}{n} - \frac{2}{n^2} \sum_{i \ge 1} \frac{1}{n} \\
&= \sum_{i \ge 1} \left[\frac{|x|(n+1)}{n} \right] - \frac{|x|}{|x|^2} \left(\frac{|x|(n+1)(2n+1)}{x} \right) \\
&= \frac{n+1}{n} - \frac{2n^2 + 3n + 1}{3n^2} - \frac{3n^2 + 3n}{3n^2} - \frac{2n^2 + 3n + 1}{3n^2} \\
&= \frac{n+1}{3n^2} - \frac{2n^2 + 3n + 1}{3n^2} - \frac{3n^2 + 3n}{3n^2} - \frac{2n^2 + 3n + 1}{3n^2} \\
&= \frac{n+1}{3} - \frac{2n^2 + 3n + 1}{3n^2} - \frac{3n^2 + 3n}{3n^2} - \frac{2n^2 + 3n + 1}{3n^2} \\
&= \frac{1-2}{3} \\
&= \frac{1}{3}
\end{aligned}$$

$$A = \lim_{i \ge 1} \left(1 + \frac{1}{n} - \frac{2}{3} - \frac{1}{n} - \frac{1}{3} -$$

