Name:

Section: ____

You have 10 minutes to complete the quiz. Please show all work, and then circle your answer.

1. Compute
$$\sum_{j=2}^{4} (j^2 + 1)$$

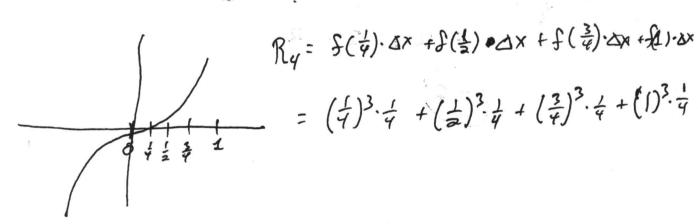
$$= (2^{2}+1) + (3^{2}+1) + (4^{2}+1)$$

$$\uparrow \qquad \uparrow \qquad \uparrow$$

$$j=2 \qquad j=3 \qquad j=4$$

(Sum)

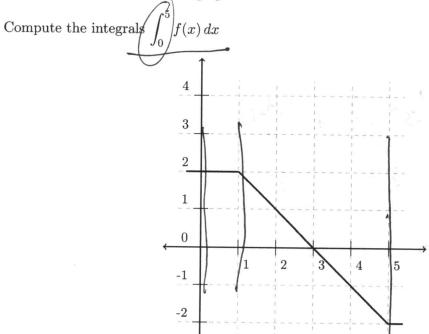
2. Use a right with four rectangles to express the area under $f(x) = x^3$ between 0 and 1.



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3. Let f(x) be defined using the graph below.



$$\int_{0}^{5} f(x) dx = 1 \cdot 2 + \frac{1}{2} \cdot 2 \cdot 2 - \frac{1}{2} \cdot 2 \cdot 2$$

$$= 2 + 2 - 2$$