GROUP QUIZ 1 QUESTIONS

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Compute the area under $f(x) = 3x^2 - 6x + 5$ over $[-1, 2]$ using the limit of the left endpoint sum.

Compute the area under $f(x) = 3x^2 - 4x + 3$ over $[-2, 1]$ using the limit of the left endpoint sum.

[MULTIPLE CHOICE] Suppose that the left endpoint sum underestimates, and the midpoint sum overestimates, the area under $f(x)$ on $[a, b]$. Which of the following could describe $f(x)$?

[a] increasing & concave up [b] increasing & concave down [c] decreasing & concave up [d] decreasing & concave down

[MULTIPLE CHOICE] Suppose that the right endpoint sum overestimates, and the midpoint sum underestimates, the area under $f(x)$ on $[a, b]$. Which of the following could describe $f(x)$?

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