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2011 AP Calculus AB FRQ 2

Graph of  $f$  on the interval  $[-2, 2]$ . The graph passes through the points  $(-2, 1)$  and  $(2, 1)$ . The function is concave down on  $[-2, 0]$  and concave up on  $[0, 2]$ . The area under the curve is shaded.

(a)  $g(x) = 2x + \int_{-2}^x f(t) dt$

$g'(x) = 2 + f(x)$

$g'(2) = 2 + 1 = 3$

(b) We need to check endpoints and local extrema in the interval.

$g(-2) = 2(-2) + \int_{-2}^{-2} f(t) dt = -4 + 0 = -4$

$g(2) = 2(2) + \int_{-2}^2 f(t) dt = 4 + \frac{8\pi}{3} = 4 + \frac{8\pi}{3}$

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