Assessment 2

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Version B

Follow the directions on the previous page. The points labeled in the figure are as follows:

$$A = (2,0) \qquad \mathcal{M} = \frac{\gamma_2 - \gamma_1}{\chi_L - \chi_1}$$

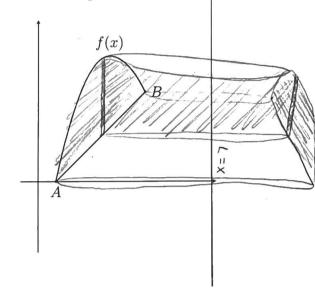
$$B = (5,3)$$

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$$(Y - Y_1) = m(x - X_1)$$

$$\text{disk} = \pi x (f(x)^2 - g(x)^2)$$

$$\text{Sull} = 2\pi x (f(x) - g(x))$$



I Chose the shell nethod to keep everything in terms of X. 277 \ X (f(x) - g(x))

$$2\pi \int_{2}^{5} (7-x) \left(f(x) - x + 2\right) dx = 2\pi \int_{2}^{5} \frac{7f(x) - 7x + 14 - f(x)x + x^{2} - 2x}{2} dx$$

$$= 2\pi \int_{2}^{5} x^{2} - f(x)x + 7f(x) - 9x + 14 dx$$

I Couldn't use the washer method because the function f(x) in terms of x would break the line test rule.