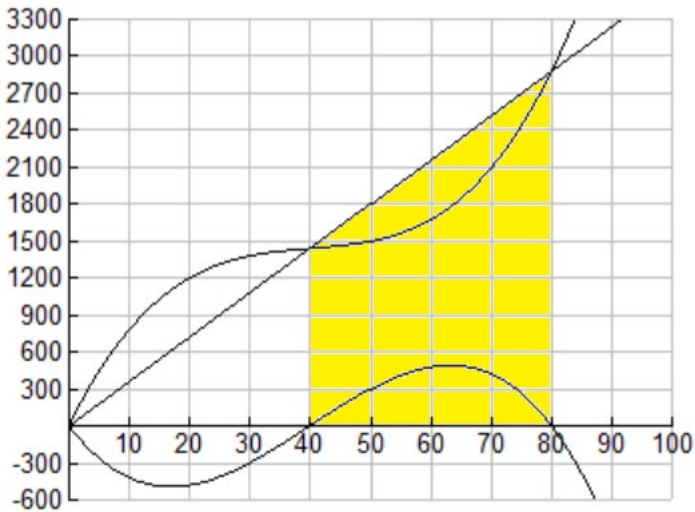
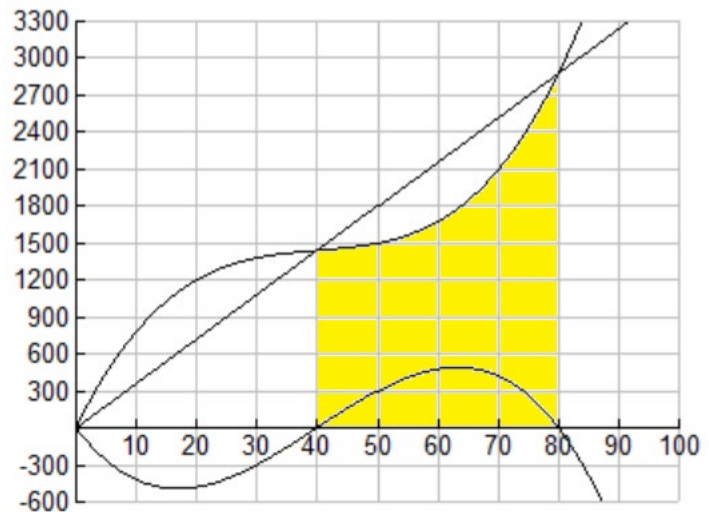


Areas Between Curves (Section 5.4)

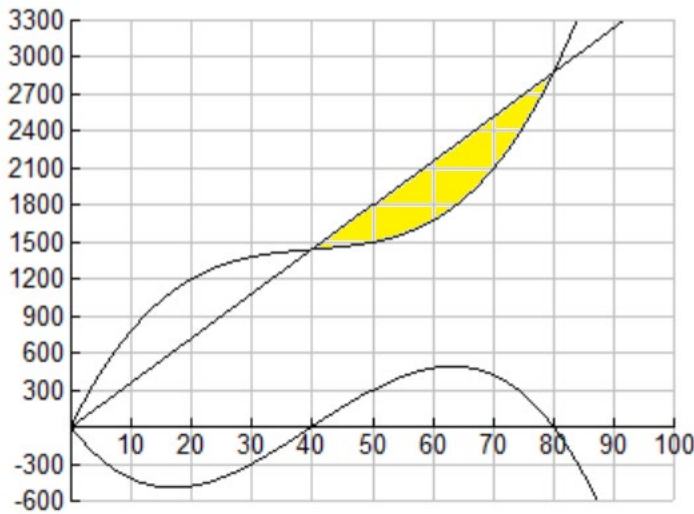
The cost function $C(x) = .02x^3 - 2.4x^2 + 100x$, the revenue function $R(x) = 36x$, and the profit function $P(x) = C(x) - R(x)$ are shown below. Enter these three functions in your grapher. Write definite integrals and find the following areas.



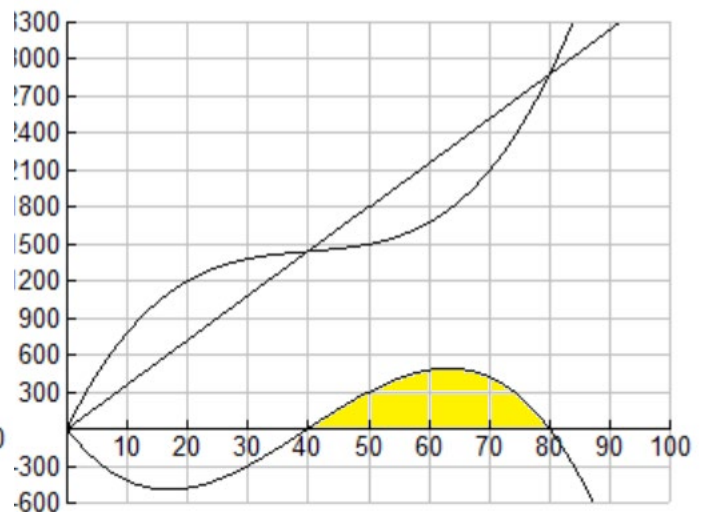
a. $\int_{\square}^{\square} (\square) dx = \square$



b. $\int_{\square}^{\square} (\square) dx = \square$



c. $\int_{\square}^{\square} (\square) dx = \square$



d. $\int_{\square}^{\square} (\square) dx = \square$

e. What is true about your answers in part c and d?