

AP Calculus – Across and Down

Clue Set: #21

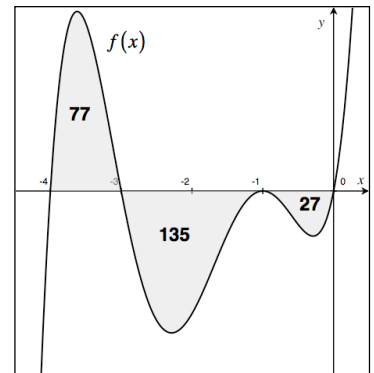
Topic: Area Under Curve

Only digits (0 – 9) and negative signs are allowed. If an answer is an integer, use leading zeros to make the answer fit. (Ex: If 4 digits are required and your answer is 46, enter 0046.) If an answer has decimal places, the decimal point is dropped and trailing zeros are used to make the answer fit to the required number of decimal places which is specified in the problem. (Ex: If 2 decimal places are required and your answer is 12.4682, round to 12.47 and enter 1247. If one decimal place is required and your answer is 15, write 15.0 and enter 150. If one decimal place is required and your answer is 0.5, wrote 05.)



Across

A19. Given the graph of $f(x)$ to the right, find $50 + \int_{-4}^0 (|f(x)| - x^4) dx$. (one decimal place)



A43. Find the area between $x = 0.3y^2$, $y = x + 2$, $y = -4$, $y = 9$ to the nearest integer.

A59. (Sci. Calc.) Find the first-quadrant area under the curve $y = e^{4x}$ to the left of $x = 2.3058$ (one-decimal place accuracy).

Down

D10. (Gr. Calc.) Find the first-quadrant area between the curves $y = e^{0.6x}$ and $y = 5.8x + 1$. (2 decimal places).

D31. (Gr. Calc.) The graphs in the figure to the right are $y = \pm 100\sqrt{x}$ and $y = \frac{100x - 1800}{3}$. Find the whole number area of the shaded region.

