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Finding intersections and evaluating integrals

TI-84 Plus

$$\int_{-1}^0 (x^3 - x) dx + \int_0^1 (x - x^3) dx = .5$$

$$\int_{-1}^1 (|x^3 - x|) dx$$

Plot1 Plot2 Plot3

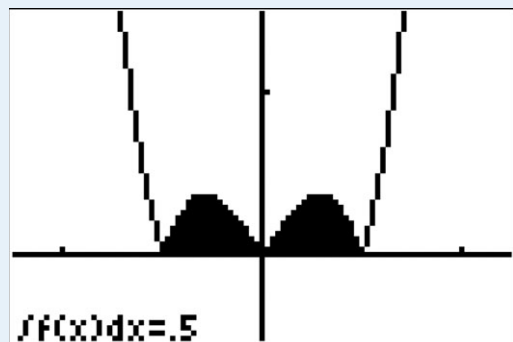
$$Y_1 = \frac{1}{2}x^3 + 2x^2 + 2x - \frac{1}{2}$$

$$Y_2 = -\frac{1}{2} + 3x + 2x^2 - \frac{1}{2}x$$

$$Y_3 = |Y_1 - Y_2|$$

$$Y_4 =$$

$$Y_5 =$$



Casio fx-9860GII

$$\int_{-1}^0 x^3 - x dx + \int_0^1 x - x^3 dx = \frac{1}{2}$$

$$\int_{-1}^1 |x^3 - x| dx$$

$$\int_{-1}^1 |x^3 - x| dx = \frac{1}{2}$$

Graph Func : Y=

$$Y_1 = \frac{1}{2}x^3 + 2x^2 + 2x - \frac{1}{2} [—]$$

$$Y_2 = -\frac{1}{2} + 3x + 2x^2 - \frac{1}{2}x [—]$$

$$Y_3 = |Y_1 - Y_2| [—]$$

SEL DEL TYPE STYL MEM DRAW

