

Fundamental Theorem of Calculus Part 2

For each problem, find $F'(x)$.

$$1. F(x) = \int_{-4}^x (t - 1) dt$$

$$2. F(x) = \int_{-3}^x (t^2 + 2t + 3) dt$$

$$3. F(x) = \int_{-1}^x (-2t + 2) dt$$

$$4. F(x) = \int_4^x (-t^3 + 11t^2 - 39t + 44) dt$$

$$5. F(x) = \int_2^x \frac{1}{t^3} dt$$

$$6. F(x) = \int_0^x -5tdt$$