

1. Compute each integral using geometry, given the graph of $y = f(x)$ below:

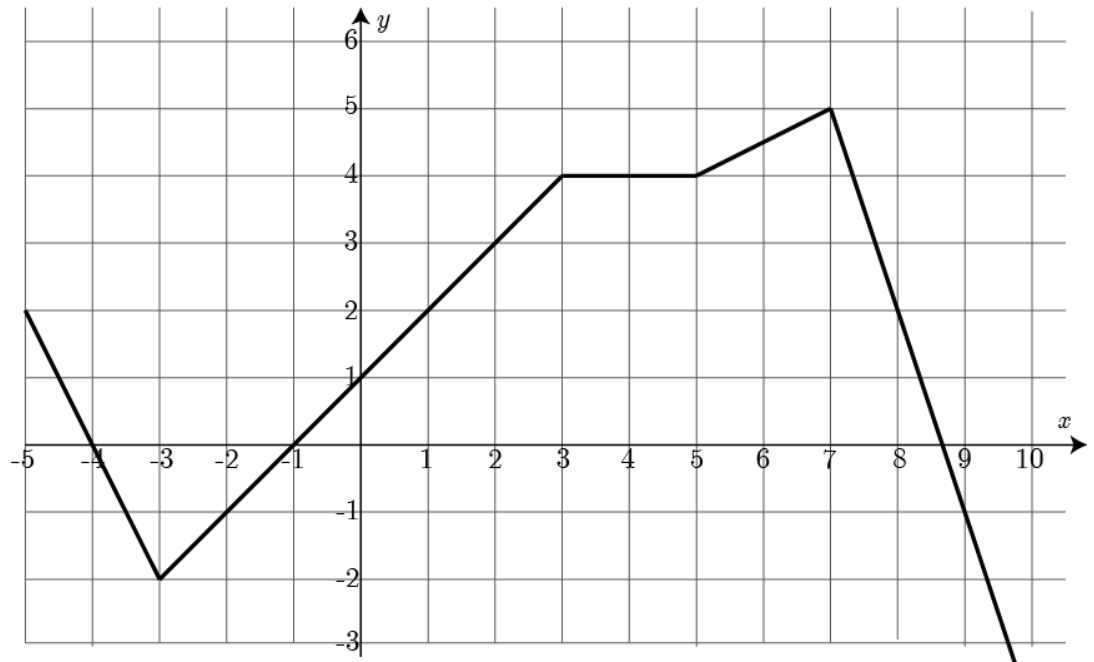
a. $\int_3^5 f(x) dx$

b. $\int_0^7 f(x) dx$

c. $\int_{-4}^{-1} f(x) dx$

d. $\int_{-3}^3 f(x) dx$

e. $\int_{-5}^8 f(x) dx$



2. Evaluate each integral by interpreting it in terms of areas. Include a sketch of the graph of the integrand, shading the appropriate area.

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

b. $\int_0^5 (8 - 2x) dx$

c. $\int_{-6}^0 \sqrt{36 - x^2} dx$

d. $\int_0^6 (6 - \sqrt{36 - x^2}) dx$