7. [10 points] Suppose that f is an even function. A portion of f is graphed below.
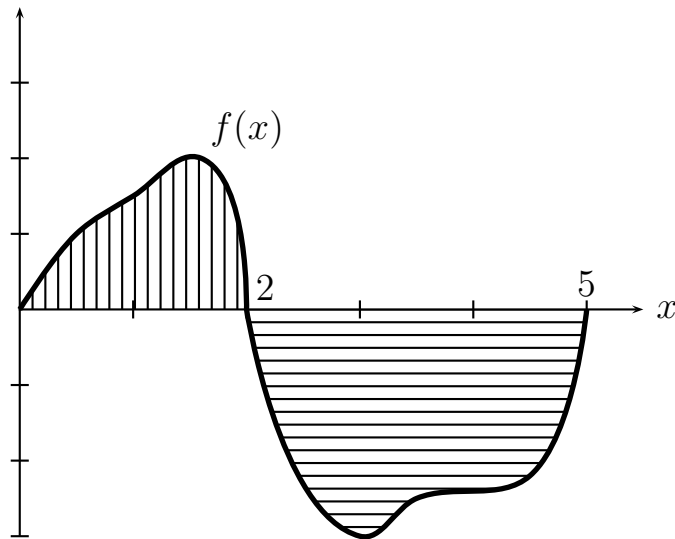

The area of the shaded region between $x = 0$ and $x = 2$ (with vertical stripes) is 3 units, and the area of the shaded region between $x = 2$ and $x = 5$ (with horizontal stripes) is 8 units. Find exact values for each of the following integrals. If it is not possible to find the exact value, write "insufficient information".

a. [2 points]

$$\int_{-2}^{2} f(x)dx$$

b. [2 points]

$$\int_{0}^{5} |f(x)|dx$$

c. [2 points]

$$\int_{0}^{1} f(2t)dt$$

d. [2 points]

$$\int_{5}^{8} f(t-3)dt$$

e. [2 points]

$$\int_{5}^{2} 9f(z)dz$$