

Class Drill: Definite Integrals for a Graph Made up of Geometric Shapes (Section 5.2)

Instructions: For each definite integral,

- (i) Shade the region between the graph of $f(x)$ and the x axis that corresponds to the integral. (Shade the regions above the x axis one color and the regions below the axis a different color.)
- (ii) Use geometric formulas to find areas of the shaded shapes. Then find the value of the integral.

Integral	Shaded Region	Value
$(A) \int_{x=-6}^{x=1} f(x) dx$		
$(B) \int_{x=-5}^{x=1} f(x) dx$		
$(C) \int_{x=-4}^{x=1} f(x) dx$		

Integral	Shaded Region	Value
$(D) \int_{x=-5}^{x=5} f(x) dx$		
$(E) \int_{x=5}^{x=5} f(x) dx$		
$(F) \int_{x=5}^{x=1} f(x) dx$		