

Kalman

Graphical Evaluation of Definite Integral Functions

The function $f(t)$ is shown in the graph below. We define $F(x) = \int_0^x f(t)dt$. Using geometry, find formulas for $F(x)$ when x is in each of the following intervals: $[0,3]$, $[3,7]$, and $[7,13]$.

