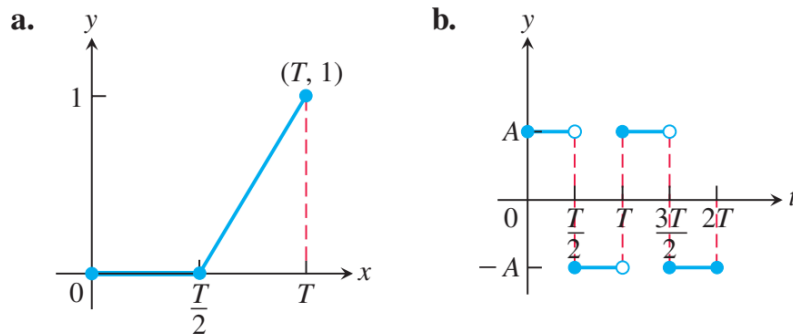


Exercise 32

Find a formula for each function graphed in Exercises 29–32.



Solution

$$\mathbf{a.} \quad y = \begin{cases} 0 & \text{if } 0 \leq x \leq \frac{T}{2} \\ \frac{2}{T} \left(x - \frac{T}{2} \right) & \text{if } \frac{T}{2} \leq x \leq T \end{cases}$$

$$\mathbf{b.} \quad y = \begin{cases} A & \text{if } 0 \leq t < \frac{T}{2} \\ -A & \text{if } \frac{T}{2} \leq t < T \\ A & \text{if } T \leq t < \frac{3T}{2} \\ -A & \text{if } \frac{3T}{2} \leq t \leq 2T \end{cases}$$