

FIGURE 2.1 Geometry of a complex number.

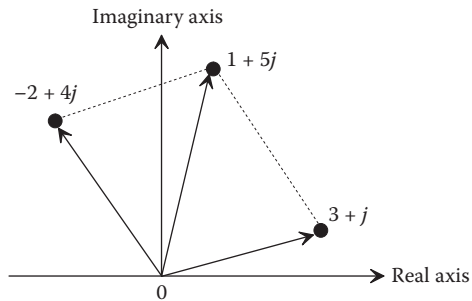


FIGURE 2.2 Addition of complex numbers.

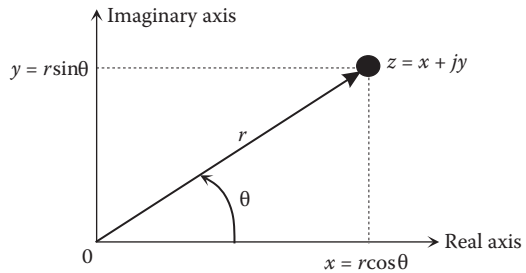


FIGURE 2.3 Connection between polar and rectangular coordinates.

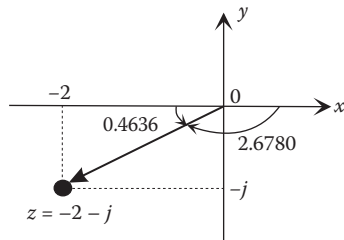


FIGURE 2.4 Phase calculation in Example 2.3.

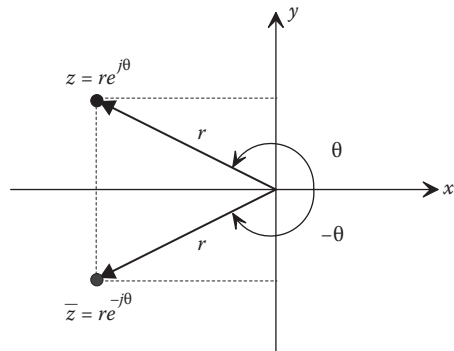


FIGURE 2.5 A complex number and its conjugate.

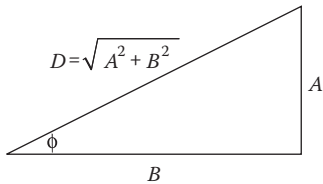


FIGURE 2.6 Phase shift.

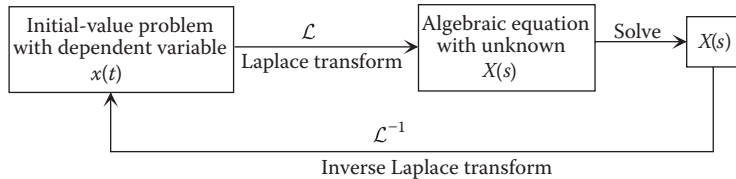


FIGURE 2.7 Solution process for IVPs using Laplace transformation.

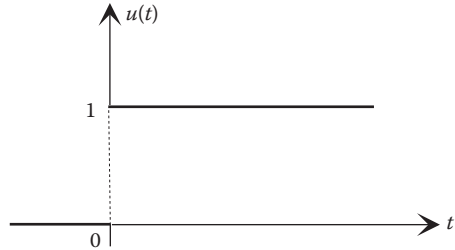


FIGURE 2.8 Unit-step at  $t = 0$ .



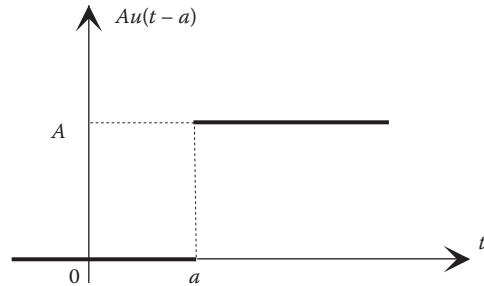


FIGURE 2.9 Time-delayed step function.

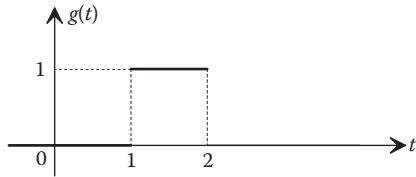


FIGURE 2.10 Example 2.14.

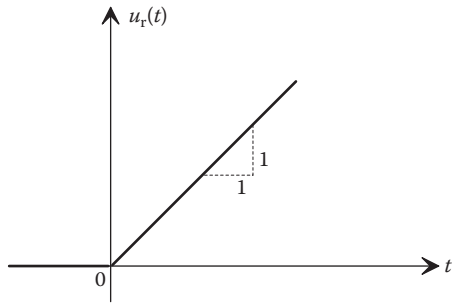


FIGURE 2.11 Unit-ramp.

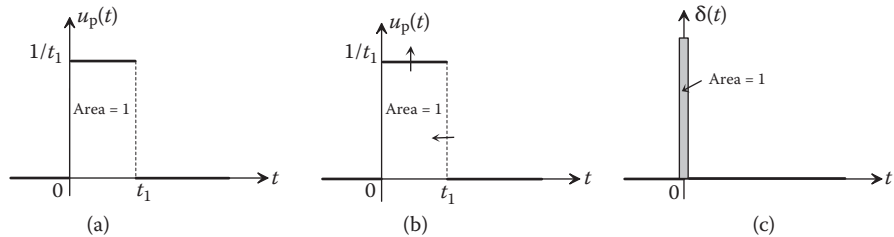


FIGURE 2.12 (a) Unit-pulse, (b)  $t_1 \rightarrow 0$ , and (c) unit-impulse.

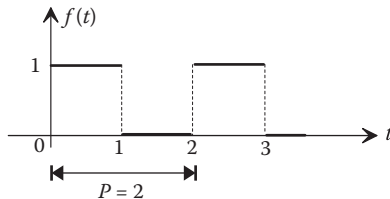


FIGURE 2.13 Periodic signal in Example 2.15.

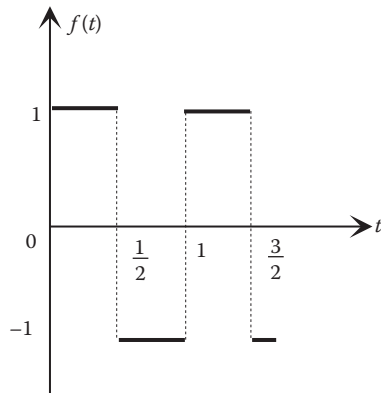


FIGURE 2.14 Periodic function in Problem 17.

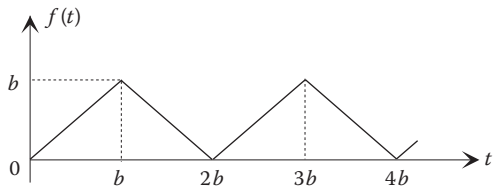


FIGURE 2.15 Periodic function in Problem 18.

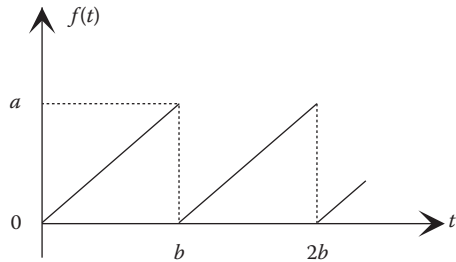


FIGURE 2.16 Problem 11.