

1. Given  $x = 2$ ,  $y = 6$ , and  $k = 8$  find  $z = x^2 + y - k$

**Solution**

$$z = x^2 + y - k = (2)^2 + (6) - (8)$$

$$z = 2$$

2. Given  $V_1 = 2\text{ V}$  and  $R_1 = 6\text{ k}\Omega$ , find the current  $I_R = V_1/R_1$

**Solution**

$$I_R = V_1/R_1 = (2)/(6e3)$$

$$I_R = 333.3\ \mu\text{A}$$