

**Exercise 90**

The function  $D(p)$  gives the number of items that will be demanded when the price is  $p$ . The production cost  $C(x)$  is the cost of producing  $x$  items. To determine the cost of production when the price is \$6, you would do which of the following?

- (a) Evaluate  $D(C(6))$ .
- (b) Evaluate  $C(D(6))$ .
- (c) Solve  $D(C(x)) = 6$ .
- (d) Solve  $C(D(p)) = 6$ .

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**Solution**

$C(D(6))$  gives the cost of producing  $D(6)$  items at a price of \$6 dollars, so the answer is (b).