

**Exercise 230**

For the following exercises, evaluate the given exponential functions as indicated, accurate to two significant digits after the decimal.

$$f(x) = (0.3)^x \text{ a. } x = -1 \text{ b. } x = 4 \text{ c. } x = -1.5$$

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**Solution**

- a. If  $x = -1$ , then  $f(x) = (0.3)^{-1} = \frac{1}{0.3} \approx 3.33$ .
- b. If  $x = 4$ , then  $f(x) = (0.3)^4 = 0.0081$ .
- c. If  $x = -1.5$ , then  $f(x) = (0.3)^{-1.5} \approx 6.09$ .