

Exercise 9

For the following exercises, find the values for each function, if they exist, then simplify.

- a. $f(0)$ b. $f(1)$ c. $f(3)$ d. $f(-x)$ e. $f(a)$ f. $f(a+h)$

$$f(x) = \frac{2}{x}$$

Solution

Evaluate each of the functions.

$$f(0) = \frac{2}{0} = \text{undefined}$$

$$f(1) = \frac{2}{1} = 2$$

$$f(3) = \frac{2}{3} \approx 0.67$$

$$f(-x) = \frac{2}{-x} = -\frac{2}{x}$$

$$f(a) = \frac{2}{a}$$

$$f(a+h) = \frac{2}{a+h}$$