

1.

$$f(x) = \begin{cases} 2, & x \in [1, 3], \\ 0, & \text{else.} \end{cases}$$

2.

$$f(x) = \begin{cases} x - 1, & x \in [1, 4], \\ 0, & \text{else.} \end{cases}$$

3.

$$f(x) = \begin{cases} 12, & x \in [1, 2], \\ 0, & \text{else.} \end{cases}$$

4.

$$f(x) = \begin{cases} 12x(x - 1), & x \in [0, 1], \\ 0, & \text{else.} \end{cases}$$

5.

$$f(x) = \begin{cases} x(x - 1), & x \in [0, 1], \\ -(x - 1)(x - 2), & x \in [1, 2], \\ 0, & \text{else.} \end{cases}$$

6.

$$f(x) = \begin{cases} (x - 3)(x - 1), & x \in [1, 3], \\ 0, & \text{else.} \end{cases}$$

7.

$$f(x) = \begin{cases} -2, & x \in [1, 3], \\ 2, & x \in (3, 5], \\ 0, & \text{else.} \end{cases}$$

8.

$$f(x) = \begin{cases} 2, & x \in [1, 3], \\ 1, & x \in (4, 5], \\ 0, & \text{else.} \end{cases}$$

9.

$$f(x) = \begin{cases} 3, & x \in [1, 3], \\ -1, & x \in (4, 5], \\ 0, & \text{else.} \end{cases}$$

10.

$$f(x) = \begin{cases} -1, & x \in (4, 5], \\ 0, & \text{else.} \end{cases}$$

11.

$$f(x) = \begin{cases} 10, & x \in (4, 8], \\ 0, & \text{else.} \end{cases}$$

12.

$$f(x) = \begin{cases} 2x - 8, & x \in (4, 5], \\ 0, & \text{else.} \end{cases}$$

13.

$$f(x) = \begin{cases} 100, & x \in (4, 5], \\ 0, & \text{else.} \end{cases}$$

14.

$$f(x) = \begin{cases} 4, & x \in [1, 2], \\ 8, & x \in (2, 3], \\ 10, & x \in (4, 5], \\ 0, & \text{else.} \end{cases}$$

15.

$$f(x) = \begin{cases} 14, & x \in [1, 2], \\ -8, & x \in (2, 3], \\ 10, & x \in (4, 5], \\ 0, & \text{else.} \end{cases}$$

16.

$$f(x) = \begin{cases} x(x - 2), & x \in [0, 2], \\ 2, & x \in (4, 5], \\ 0, & \text{else.} \end{cases}$$

17.

$$f(x) = \begin{cases} x - 1, & x \in [1, 2], \\ (x - 4)(x - 5), & x \in (4, 5], \\ 0, & \text{else.} \end{cases}$$

18.

$$f(x) = \begin{cases} -1, & x \in [1, 2], \\ 1, & x \in (4, 5], \\ 0, & \text{else.} \end{cases}$$

19.

$$f(x) = \begin{cases} 2(x - 4)(x - 5), & x \in (4, 5], \\ 0, & \text{else.} \end{cases}$$

20.

$$f(x) = \begin{cases} -2(x - 4)(x - 5), & x \in (4, 5], \\ 0, & \text{else.} \end{cases}$$
