

## Functions 1

1.  $f(x) = 4x$  Find the value of: (a)  $f(2)$  (b)  $f(-5)$
2.  $f(x) = x + 6$  Find the value of: (a)  $f(3)$  (b)  $f(-2)$
3.  $f(x) = x - 3$  Find the value of: (a)  $f(10)$  (b)  $f(-1)$
4.  $f(x) = 2x + 10$  Find the value of: (a)  $f(4)$  (b)  $f(-3)$
5.  $f(x) = 3x + 2$  Find the value of: (a)  $f(2)$  (b)  $f(-4)$
6.  $f(x) = x^2$  Find the value of: (a)  $f(4)$  (b)  $f(-10)$
7.  $f(x) = 4 - x$  Find the value of: (a)  $f(1)$  (b)  $f(-2)$
8.  $f(x) = x^2 + 1$  Find the value of: (a)  $f(3)$  (b)  $f(-5)$
9.  $f(x) = 3x - 5$  Find the value of: (a)  $f(2)$  (b)  $f(-1)$
10.  $f(x) = 7 - 2x$  Find the value of: (a)  $f(3)$  (b)  $f(-2)$
11.  $f(x) = 2x^2$  Find the value of: (a)  $f(4)$  (b)  $f(-3)$
12.  $f(x) = x^2 + 2x$  Find the value of: (a)  $f(3)$  (b)  $f(-5)$
13.  $f(x) = x^2 - 4x$  Find the value of: (a)  $f(6)$  (b)  $f(-6)$
14.  $f(x) = 3x + 10$  Find the value of: (a)  $f(4)$  (b)  $f(-3)$
15.  $g(x) = 6x + 4$  Find the value of: (a)  $g(0)$  (b)  $g(-2)$
16.  $h(x) = 4 - 2x$  Find the value of: (a)  $h(2)$  (b)  $h(-3)$

17.  $m(x) = 3x - 8$  Find the value of: (a)  $m(6)$  (b)  $m(-4)$
18.  $p(x) = \frac{x}{3}$  Find the value of: (a)  $p(12)$  (b)  $p(-6)$
19.  $f(x) = \frac{3x}{2}$  Find the value of: (a)  $f(4)$  (b)  $f(-2)$
20.  $C(x) = 1.5x + 25$  Find the value of: (a)  $C(2)$  (b)  $C(6)$
21.  $f(x) = 4 - 3x$  Find the value of: (a)  $f(3)$  (b)  $f(-2)$
22.  $d(x) = 5x^2$  Find the value of: (a)  $d(4)$  (b)  $d(-3)$
23.  $f(x) = x^3$  Find the value of: (a)  $f(4)$  (b)  $f(-2)$
24.  $f(x) = x^2 + 2x + 4$  Find the value of: (a)  $f(5)$  (b)  $f(-3)$
25.  $A(x) = 30 + 5x$  Find the value of: (a)  $A(2)$  (b)  $A(-4)$
26.  $t(x) = \frac{24}{x}$  Find the value of: (a)  $t(3)$  (b)  $t(-6)$
27.  $f(x) = x^2 + 3x$  Find the value of: (a)  $f(4)$  (b)  $f(-5)$
28.  $f(x) = x^2 - 5x$  Find the value of: (a)  $f(3)$  (b)  $f(-2)$
29.  $f(x) = \frac{x^2 + 4x}{5}$  Find the value of: (a)  $f(5)$  (b)  $f(-10)$
30.  $f(x) = x^2 + 2x - 1$  Find the value of: (a)  $f(4)$  (b)  $f(-3)$
31.  $g(x) = x^2 - 3x - 7$  Find the value of: (a)  $g(5)$  (b)  $g(-2)$
32.  $h(x) = (x + 3)^2$  Find the value of: (a)  $f(2)$  (b)  $f(-9)$

## Answers

- |            |     |    |     |     |            |     |    |     |     |
|------------|-----|----|-----|-----|------------|-----|----|-----|-----|
| <b>1.</b>  | (a) | 8  | (b) | -20 | <b>2.</b>  | (a) | 9  | (b) | 4   |
| <b>3.</b>  | (a) | 7  | (b) | -4  | <b>4.</b>  | (a) | 18 | (b) | 4   |
| <b>5.</b>  | (a) | 8  | (b) | -10 | <b>6.</b>  | (a) | 16 | (b) | 100 |
| <b>7.</b>  | (a) | 3  | (b) | 6   | <b>8.</b>  | (a) | 10 | (b) | 26  |
| <b>9.</b>  | (a) | 1  | (b) | -8  | <b>10.</b> | (a) | 1  | (b) | 11  |
| <b>11.</b> | (a) | 32 | (b) | 18  | <b>12.</b> | (a) | 15 | (b) | 15  |
| <b>13.</b> | (a) | 12 | (b) | 60  | <b>14.</b> | (a) | 22 | (b) | 1   |
| <b>15.</b> | (a) | 4  | (b) | -8  | <b>16.</b> | (a) | 0  | (b) | 10  |
| <b>17.</b> | (a) | 10 | (b) | -20 | <b>18.</b> | (a) | 4  | (b) | -2  |
| <b>19.</b> | (a) | 6  | (b) | -3  | <b>20.</b> | (a) | 28 | (b) | 34  |
| <b>21.</b> | (a) | -5 | (b) | 10  | <b>22.</b> | (a) | 80 | (b) | 45  |
| <b>23.</b> | (a) | 64 | (b) | -8  | <b>24.</b> | (a) | 39 | (b) | 7   |
| <b>25.</b> | (a) | 40 | (b) | 10  | <b>26.</b> | (a) | 8  | (b) | -4  |
| <b>27.</b> | (a) | 28 | (b) | 10  | <b>28.</b> | (a) | -6 | (b) | 14  |
| <b>29.</b> | (a) | 9  | (b) | 12  | <b>30.</b> | (a) | 23 | (b) | 2   |
| <b>31.</b> | (a) | 3  | (b) | 3   | <b>32.</b> | (a) | 25 | (b) | 36  |