

Functions - 2

1. $f(x) = x + 4$ (a) Evaluate $f(2)$. (b) If $f(x) = 10$, find x .
2. $f(x) = 2x$ (a) Evaluate $f(3)$. (b) If $f(x) = 16$, find x .
3. $f(x) = x - 1$ (a) Evaluate $f(5)$. (b) If $f(x) = 2$, find x .
4. $f(x) = 3x + 1$ (a) Evaluate $f(3)$. (b) If $f(x) = 16$, find x .
5. $f(x) = 2x - 5$ (a) Evaluate $f(4)$. (b) If $f(x) = 9$, find x .
6. $f(x) = 2x + 4$ (a) Evaluate $f(6)$. (b) If $f(x) = 10$, find x .
7. $f(x) = 4x - 3$ (a) Evaluate $f(2)$. (b) If $f(x) = 21$, find x .
8. $g(x) = 3x + 10$ (a) Evaluate $g(5)$. (b) If $g(x) = 4$, find x .
9. $h(x) = 30 + 5x$ (a) Evaluate $h(14)$. (b) If $h(x) = 75$, find x .
10. $k(x) = 1 - 2x$ (a) Evaluate $k(4)$. (b) If $k(x) = 7$, find x .
11. $f(x) = 7 - 3x$ (a) Evaluate $f(-2)$. (b) If $f(x) = 1$, find x .
12. $f(x) = \frac{x}{2}$ (a) Evaluate $f(8)$. (b) If $f(x) = 6$, find x .
13. $f(x) = \frac{2x}{3}$ (a) Evaluate $f(6)$. (b) If $f(x) = 10$, find x .
14. $f(x) = \frac{36}{x}$ (a) Evaluate $f(4)$. (b) If $f(x) = 12$, find x .

15. $f(x) = \frac{x+1}{2}$ (a) Evaluate $f(9)$. (b) If $f(x) = 3$, find x .

16. $f(x) = \frac{2x-1}{3}$ (a) Evaluate $f(5)$. (b) If $f(x) = 7$, find x .

17. $f(x) = \frac{20}{x-1}$ (a) Evaluate $f(6)$. (b) If $f(x) = 10$, find x .

18. $f(x) = \frac{5x}{x+2}$ (a) Evaluate $f(8)$. (b) If $f(x) = 10$, find x .

19. $f(x) = 4x + 1$ and $g(x) = x + 7$.

Find the value of x for which $f(x) = g(x)$.

20. $f(x) = 6x - 2$ and $g(x) = 2x + 10$.

Find the value of x for which $f(x) = g(x)$.

21. $f(x) = \frac{x+1}{8}$ If $f(x) = \frac{3}{4}$, find x .

22. $f(x) = \frac{3x}{x-2}$ If $f(x) = 6$, find x .

23. $f(x) = \frac{8x}{x-2}$ If $f(x) = 12$, find x .

24. $g(x) = \frac{x+8}{x-8}$ If $g(x) = 5$, find x .

25. $f(x) = \frac{2x+1}{x-4}$ (a) Evaluate $f(7)$. (b) If $f(x) = 3$, find x .

Answers

1. (a) 6 (b) $x = 6$ 2. (a) 6 (b) $x = 8$
3. (a) 4 (b) $x = 3$ 4. (a) 10 (b) $x = 5$
5. (a) 3 (b) $x = 7$ 6. (a) 16 (b) $x = 3$
7. (a) 5 (b) $x = 6$ 8. (a) 25 (b) $x = -2$
9. (a) 100 (b) $x = 9$ 10. (a) -7 (b) $x = -3$
11. (a) 13 (b) $x = 2$ 12. (a) 4 (b) $x = 12$
13. (a) 4 (b) $x = 15$ 14. (a) 9 (b) $x = 3$
15. (a) 5 (b) $x = 5$ 16. (a) 3 (b) $x = 11$
17. (a) 4 (b) $x = 3$ 18. (a) 4 (b) $x = -4$
19. $x = 2$ 20. $x = 3$ 21. $x = 5$ 22. $x = 4$
23. $x = 6$ 24. $x = 12$ 25. (a) 5 (b) $x = 13$