

Evaluating Functions *fluency*

Work out

1 $f(4)$ when $f(x) = 3x + 2$

3 $f(0)$ when $f(x) = 2x + 7$

5 $f(4)$ when $f(x) = 10 - x$

2 $f(7)$ when $f(x) = 5x - 1$

4 $f(6)$ when $f(x) = 4x$

6 $f(8)$ when $f(x) = \frac{x}{2} + 5$

Work out

7 $f(-2)$ when $f(x) = 3x + 2$

9 $f(-4)$ when $f(x) = x - 8$

11 $f(3)$ when $f(x) = 4 - 3x$

8 $f(-3)$ when $f(x) = 5 - 2x$

10 $f(-0.5)$ when $f(x) = 6x + 1$

12 $f(-8)$ when $f(x) = \frac{x}{4} - 1$

Work out

13 $f(3)$ when $f(x) = x^2 + 1$

15 $f(-2)$ when $f(x) = x^2 - 5$

17 $f(4)$ when $f(x) = 10 - x^2$

14 $f(4)$ when $f(x) = 2x^2$

16 $f(2)$ when $f(x) = 3x^2 + x$

18 $f(-2)$ when $f(x) = x^3$

Find a

19 $f(a) = 17$ when $f(x) = 3x + 2$

21 $f(a) = 3$ when $f(x) = 2x + 9$

23 $f(a) = 12$ when $f(x) = 7 - x$

20 $f(a) = 36$ when $f(x) = 5x - 4$

22 $f(a) = 6$ when $f(x) = \frac{x}{3} + 1$

24 $f(a) = 7$ when $f(x) = 4x + 1$

The functions f and g are given

25 $f(x) = 2x$, $g(x) = x^2 - 1$
Work out $f(2) + g(3)$

27 $f(x) = 4x - 1$, $g(x) = x^2$
Work out $f(3) - g(2)$

29 $f(x) = x^2$, $g(x) = x - 6$
Work out $f(-3) + g(10)$

26 $f(x) = x + 5$, $g(x) = 3x$
Work out $f(1) \times g(2)$

28 $f(x) = 10 - x$, $g(x) = 2x + 1$
Work out $f(4) + g(-1)$

30 $f(x) = 3x + 2$, $g(x) = x - 4$
Work out $2f(1) - g(6)$