

Work out

1 $f(4)$ when $f(x) = 3x + 2$ **14**

2 $f(7)$ when $f(x) = 5x - 1$ **34**

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

4 $f(6)$ when $f(x) = 4x$ **24**

5 $f(4)$ when $f(x) = 10 - x$ **6**

6 $f(8)$ when $f(x) = \frac{x}{2} + 5$ **9**

Work out

7 $f(-2)$ when $f(x) = 3x + 2$ **-4**

8 $f(-3)$ when $f(x) = 5 - 2x$ **11**

9 $f(-4)$ when $f(x) = x - 8$ **-12**

10 $f(-0.5)$ when $f(x) = 6x + 1$ **-2**

11 $f(3)$ when $f(x) = 4 - 3x$ **-5**

12 $f(-8)$ when $f(x) = \frac{x}{4} - 1$ **-3**

Work out

13 $f(3)$ when $f(x) = x^2 + 1$ **10**

14 $f(4)$ when $f(x) = 2x^2$ **32**

15 $f(-2)$ when $f(x) = x^2 - 5$ **-1**

16 $f(2)$ when $f(x) = 3x^2 + x$ **14**

17 $f(4)$ when $f(x) = 10 - x^2$ **-6**

18 $f(-2)$ when $f(x) = x^3$ **-8**

Find a

19 $f(a) = 17$ when $f(x) = 3x + 2$ **$a = 5$**

20 $f(a) = 36$ when $f(x) = 5x - 4$ **$a = 8$**

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

22 $f(a) = 6$ when $f(x) = \frac{x}{3} + 1$ **$a = 15$**

23 $f(a) = 12$ when $f(x) = 7 - x$ **$a = -5$**

24 $f(a) = 7$ when $f(x) = 4x + 1$ **$a = 1.5$**

The functions f and g are given

25 $f(x) = 2x$, $g(x) = x^2 - 1$
Work out $f(2) + g(3)$ **12**

26 $f(x) = x + 5$, $g(x) = 3x$
Work out $f(1) \times g(2)$ **36**

27 $f(x) = 4x - 1$, $g(x) = x^2$
Work out $f(3) - g(2)$ **7**

28 $f(x) = 10 - x$, $g(x) = 2x + 1$
Work out $f(4) + g(-1)$ **5**

29 $f(x) = x^2$, $g(x) = x - 6$
Work out $f(-3) + g(10)$ **13**

30 $f(x) = 3x + 2$, $g(x) = x - 4$
Work out $2f(1) - g(6)$ **8**