

Functions Problems (1)

Find the value of the constant k in each of the function problems.

The function of f is such that $f(x) = 4x - 1$

The function g is such that

$$g(x) = kx^2 \text{ where } k \text{ is a constant.}$$

Given that $fg(2) = 12$

(a) Work out the value of k

The function of f is such that $f(x) = 5x - 3$

The function g is such that

$$g(x) = kx^2 \text{ where } k \text{ is a constant.}$$

Given that $fg(3) = 17$

(a) Work out the value of k

The function of f is such that $f(x) = 4x + 3$

The function g is such that

$$g(x) = kx^2 \text{ where } k \text{ is a constant.}$$

Given that $fg(2) = 9$

(a) Work out the value of k

The function of f is such that $f(x) = 6x - 14$

The function g is such that

$$g(x) = kx^2 \text{ where } k \text{ is a constant.}$$

Given that $fg(3) = 27$

(a) Work out the value of k

The function of f is such that $f(x) = 9x + 2$

The function g is such that

$$g(x) = kx^2 \text{ where } k \text{ is a constant.}$$

Given that $fg(4) = 15$

(a) Work out the value of k

The function of f is such that $f(x) = 4x + 7$

The function g is such that

$$g(x) = kx^2 - 3 \text{ where } k \text{ is a constant.}$$

Given that $fg(3) = 25$

(a) Work out the value of k



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