

1. Consider the following functions.

$$f(x) = 6x - 2$$

$$g(x) = 3x$$

$$h(x) = 2^x + 3$$

$$p(x) = 2$$

a. Determine $(f + g)(x)$

b. Determine $(f + h)(x)$

c. Determine $(g - f)(x)$

d. Determine $(p \cdot g)(x)$

e. Determine $(f \cdot g)(2)$

f. Determine $\left(\frac{f}{g}\right)(x)$

2. Given the following partial set of values of function evaluate the following.

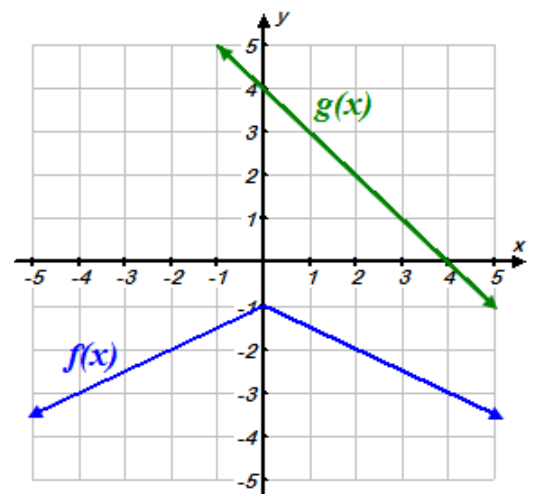
x	-1	0	1	2	3
$f(x)$	1	2	4	8	16
$g(x)$	-5	-3	-1	1	3

a. Determine $f(1) - 2 \cdot g(2)$

b. Determine $(f + g)(2)$

3. Given the following partial set of values of function evaluate the following.

a. Determine $f(4) + 2 \cdot g(1)$



4. Consider the following functions.

$$f(x) = 6x - 2$$

$$g(x) = 3x$$

$$h(x) = 2^x + 3$$

$$p(x) = 2$$

a. Determine $(f \circ h)(1)$

b. Determine $(g \circ f)(2)$

c. Determine $(f \circ g)(x)$

d. Determine $(g \circ h)(x)$

5. Given the following partial set of values of function evaluate the following.

x	-1	0	1	2	3
$f(x)$	1	2	4	8	16
$g(x)$	-5	-3	-1	1	3

a. Determine $(f \circ g)(2)$

b. Determine $(g \circ f)(0)$

6. Given the following partial set of values of function evaluate the following.

a. Determine $(f \circ g)(0)$

