

Multiplying and Dividing Functions



Perform the indicated operation.

1) $h(x) = 5x$

$$g(x) = -10x^3 + 10x^2$$

Find $(\frac{g}{h})(x)$

2) $h(x) = 10x$

$$g(x) = 6x + 4$$

Find $(h \cdot g)(3)$

3) $h(x) = 11x$

$$g(x) = 7x + 4$$

Find $(h \cdot g)(x)$

4) $h(x) = 6x$

$$g(x) = -12x^3 + 18x^2$$

Find $(\frac{g}{h})(x)$

5) $h(x) = 7x$

$$g(x) = -21x^3 + 14x^2$$

Find $(\frac{g}{h})(2)$

6) $h(x) = -7x$

$$g(x) = 8x - 2$$

Find $(h \cdot g)(x)$

7) $h(x) = 2x$

$$g(x) = 4x + 4$$

Find $(h \cdot g)(1)$

8) $h(x) = 9x$

$$g(x) = -27x^3 + 36x^2$$

Find $(\frac{g}{h})(x)$

9) $h(x) = 2x$

$$g(x) = 8x^3 + 6x^2$$

Find $(\frac{g}{h})(x)$

10) $h(x) = 3x$

$$g(x) = 6x + 4$$

Find $(h \cdot g)(3)$

11) $h(x) = -5x$

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

Find $(h \cdot g)(x)$

12) $h(x) = 2x$

$$g(x) = 6x + 3$$

Find $(h \cdot g)(x)$

Answers of Multiplying and Dividing Functions



Perform the indicated operation.

1) $h(x) = 5x$

$$g(x) = -10x^3 + 10x^2$$

Find $(\frac{g}{h})(x)$

$$(\frac{g}{h})(x) = -2x^2 + 2x$$

2) $h(x) = 10x$

$$g(x) = 6x + 4$$

Find $(h \cdot g)(3)$

$$(h \cdot g)(x) = 660$$

3) $h(x) = 11x$

$$g(x) = 7x + 4$$

Find $(h \cdot g)(x)$

$$(h \cdot g)(x) = 77x^2 + 44x$$

4) $h(x) = 6x$

$$g(x) = -12x^3 + 18x^2$$

Find $(\frac{g}{h})(x)$

$$(\frac{g}{h})(x) = -2x^2 + 3x$$

5) $h(x) = 7x$

$$g(x) = -21x^3 + 14x^2$$

Find $(\frac{g}{h})(2)$

$$(\frac{g}{h})(x) = -8$$

6) $h(x) = -7x$

$$g(x) = 8x - 2$$

Find $(h \cdot g)(x)$

$$(h \cdot g)(x) = -56x^2 + 14x$$

7) $h(x) = 2x$

$$g(x) = 4x + 4$$

Find $(h \cdot g)(1)$

$$(h \cdot g)(x) = 16$$

8) $h(x) = 9x$

$$g(x) = -27x^3 + 36x^2$$

Find $(\frac{g}{h})(x)$

$$(\frac{g}{h})(x) = -3x^2 + 4x$$

9) $h(x) = 2x$

$$g(x) = 8x^3 + 6x^2$$

Find $(\frac{g}{h})(x)$

$$(\frac{g}{h})(x) = 4x^2 + 3x$$

10) $h(x) = 3x$

$$g(x) = 6x + 4$$

Find $(h \cdot g)(3)$

$$(h \cdot g)(x) = 198$$

11) $h(x) = -5x$

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

Find $(h \cdot g)(x)$

$$(h \cdot g)(x) = -30x^2 + 10x$$

12) $h(x) = 2x$

$$g(x) = 6x + 3$$

Find $(h \cdot g)(x)$

$$(h \cdot g)(x) = 12x^2 + 6x$$