Multiplying and Dividing Functions

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Perform the indicated operation.

1) $h(x) = 9x$
$g(x) = 4x + 2$
Find $(h \cdot g)(4)$

2) $h(x) = 2x$
$g(x) = 8x^3 + 6x^2$
Find $(\frac{g}{h})(x)$

3) $h(x) = 10x$
$g(x) = 30x^3 + 40x^2$
Find $(\frac{g}{h})(1)$

4) $h(x) = -4x$
$g(x) = 2x - 3$
Find $(h \cdot g)(x)$

5) $h(x) = 7x$
$g(x) = 8x + 3$
Find $(h \cdot g)(1)$

6) $h(x) = 3x$
$g(x) = 6x + 4$
Find $(h \cdot g)(3)$

7) $h(x) = -2x$
$g(x) = 4x - 3$
Find $(h \cdot g)(x)$

8) $h(x) = 5x$
$g(x) = -10x^3 + 10x^2$
Find $(\frac{g}{h})(x)$

9) $h(x) = 10x$
$g(x) = 8x + 3$
Find $(h \cdot g)(x)$

10) $h(x) = 9x$
$g(x) = -27x^3 + 36x^2$
Find $(\frac{g}{h})(x)$

11) $h(x) = 2x$
$g(x) = -4x^3 + 8x^2$
Find $(\frac{g}{h})(3)$

12) $h(x) = -5x$
$g(x) = 6x - 2$
Find $(h \cdot g)(x)$

13) $h(x) = 4x$
$g(x) = 16x^3 + 16x^2$
Find $(\frac{g}{h})(3)$

14) $h(x) = 6x$
$g(x) = -18x^3 + 12x^2$
Find $(\frac{g}{h})(4)$

15) $h(x) = 10x$
$g(x) = 20x^3 + 20x^2$
Find $(\frac{g}{h})(x)$

16) $h(x) = 8x$
$g(x) = -24x^3 + 32x^2$
Find $(\frac{g}{h})(2)$

Answers of Multiplying and Dividing Functions

Perform the indicated operation.

1) $h(x) = 9x$
$g(x) = 4x + 2$
Find $(h.g)(4)$
$(h.g)(x) = 648$

2) $h(x) = 2x$
$g(x) = 8x^3 + 6x^2$
Find $(\frac{g}{h})(x)$
$(\frac{g}{h})(x) = 4x^2 + 3x$

3) $h(x) = 10x$
$g(x) = 30x^3 + 40x^2$
Find $(\frac{g}{h})(1)$
$(\frac{g}{h})(x) = 7$

4) $h(x) = -4x$
$g(x) = 2x - 3$
Find $(h.g)(x)$
$(h.g)(x) = -8x^2 + 12x$

5) $h(x) = 7x$
$g(x) = 8x + 3$
Find $(h.g)(1)$
$(h.g)(x) = 77$

6) $h(x) = 3x$
$g(x) = 6x + 4$
Find $(h.g)(3)$
$(h.g)(x) = 198$

7) $h(x) = -2x$
$g(x) = 4x - 3$
Find $(h.g)(x)$
$(h.g)(x) = -8x^2 + 6x$

8) $h(x) = 5x$
$g(x) = -10x^3 + 10x^2$
Find $(\frac{g}{h})(x)$
$(\frac{g}{h})(x) = -2x^2 + 2x$

9) $h(x) = 10x$
$g(x) = 8x + 3$
Find $(h.g)(x)$
$(h.g)(x) = 80x^2 + 30x$

10) $h(x) = 9x$
$g(x) = -27x^3 + 36x^2$
Find $(\frac{g}{h})(x)$
$(\frac{g}{h})(x) = -3x^2 + 4x$

11) $h(x) = 2x$
$g(x) = -4x^3 + 8x^2$
Find $(\frac{g}{h})(3)$
$(\frac{g}{h})(x) = -6$

12) $h(x) = -5x$
$g(x) = 6x - 2$
Find $(h.g)(x)$
$(h.g)(x) = -30x^2 + 10x$

13) $h(x) = 4x$
$g(x) = 16x^3 + 16x^2$
Find $(\frac{g}{h})(3)$
$(\frac{g}{h})(x) = 48$

14) $h(x) = 6x$
$g(x) = -18x^3 + 12x^2$
Find $(\frac{g}{h})(4)$
$(\frac{g}{h})(x) = -40$

15) $h(x) = 10x$
$g(x) = 20x^3 + 20x^2$
Find $(\frac{g}{h})(x)$
$(\frac{g}{h})(x) = 2x^2 + 2x$

16) $h(x) = 8x$
$g(x) = -24x^3 + 32x^2$
Find $(\frac{g}{h})(2)$
$(\frac{g}{h})(x) = -4$