Name:

Date:

Composition of Functions

Perform the indicated operation.

1) $f(x) = 4x - 7$
$y(x) = 3x^2 + 1$
Find: $f\big(y(-1)\big)$

2) $f(x) = x^2 + 3x$
$h(x) = 4x$
Find: $f\big(h(-2)\big)$

3) $g(t) = -2t + 4$
$f(t) = t + 5$
Find: $g\big(f(3)\big)$

4) $h(x) = x^2 + 2x$
$f(x) = x - 7$
Find: $h\big(f(1)\big)$

5) $f(x) = 2x^2 + x$
$y(x) = x + 2$
Find: $f\big(y(-5)\big)$

6) $y(x) = x^3 - 5x$
Find: $y\big(y(-1)\big)$

7) $g(x) = 4x^2 - 2$
$y(x) = 2x$
Find: $g\big(y(-3)\big)$

8) $f(t) = t^2 - 5$
$y(t) = t + 9$
Find: $f\big(y(-4)\big)$

9) $f(x) = 5x^3$
$y(x) = -x + 2$
Find: $f\big(y(2)\big)$

10) $y(x) = x^3 - 10$
$h(x) = x - 2$
Find: $y\big(h(2)\big)$

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QUIZ ?

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Name:

Date:

Composition of Functions

Answers

Perform the indicated operation.

1) $f(x) = 4x - 7$
$y(x) = 3x^2 + 1$
Find: $f(y(-1))$
11

2) $f(x) = x^2 + 3x$
$h(x) = 4x$
Find: $f(h(-2))$
40

3) $g(t) = -2t + 4$
$f(t) = t + 5$
Find: $g(f(3))$
-12

4) $h(x) = x^2 + 2x$
$f(x) = x - 7$
Find: $h(f(1))$
24

5) $f(x) = 2x^2 + x$
$y(x) = x + 2$
Find: $f(y(-5))$
15

6) $y(x) = x^3 - 5x$
Find: $y(y(-1))$
44

7) $g(x) = 4x^2 - 2$
$y(x) = 2x$
Find: $g(y(-3))$
142

8) $f(t) = t^2 - 5$
$y(t) = t + 9$
Find: $f(y(-4))$
20

9) $f(x) = 5x^3$
$y(x) = -x + 2$
Find: $f(y(2))$
0

10) $y(x) = x^3 - 10$
$h(x) = x - 2$
Find: $y(h(2))$
-10

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QUIZ ?

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