Name:

Date:

Adding and Subtracting Functions

Perform the indicated operation.

1) $g(x) = 2x - 5$
$h(x) = 4x + 5$
Find $g(3) - h(3)$

2) $g(x) = -x^2 - 1 - 2x$
$f(x) = 5 + x$
Find $(g - f)(x)$

3) $f(x) = 4x - 3$
$g(x) = x^3 + 2x$
Find $(f - g)(4)$

4) $h(n) = 4n + 5$
$g(n) = 3n + 4$
Find $(h - g)(n)$

5) $g(a) = -3^a - 3$
$f(a) = a^2 + 5$
Find $(g - f)(a)$

6) $h(t) = 2t + 1$
$g(t) = 2t + 2$
Find $(h - g)(t)$

7) $g(t) = 2t + 5$
$f(t) = -t^2 + 5$
Find $(g + f)(t)$

8) $h(3) = 3x + 3$
$g(x) = -4x + 1$
Find $(h + g)(10)$

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1) $g(x) = 2x - 5$
$h(x) = 4x + 5$
Find $g(3) - h(3)$

-16

2) $g(x) = -x^2 - 1 - 2x$
$f(x) = 5 + x$
Find $(g - f)(x)$

$-x^2 - 3x - 6$

3) $f(x) = 4x - 3$
$g(x) = x^3 + 2x$
Find $(f - g)(4)$

-59

4) $h(n) = 4n + 5$
$g(n) = 3n + 4$
Find $(h - g)(n)$

$n + 1$

5) $g(a) = -3^a - 3$
$f(a) = a^2 + 5$
Find$(g - f)(a)$

$-a^2 - 3a - 8$

6) $h(t) = 2t + 1$
$g(t) = 2t + 2$
Find$(h - g)(t)$

-1

7) $g(t) = 2t + 5$
$f(t) = -t^2 + 5$
Find $(g + f)(t)$

$-t^2 + 2t + 10$

8) $h(3) = 3x + 3$
$g(x) = -4x + 1$
Find $(h + g)(10)$

-6