

Alg2 HOMEWORK: Evaluating Functions worksheet – Day 2

Evaluate each function.

1. $f(x) = -4x + 1$; find $f(4z)$	2. $g(x) = 3x^2 + 8$; find $g(2a)$
3. $f(x) = -3x^2 + 2x - 1$; find $f(3y)$	4. $g(x) = x - 3$; find $g(b + 1)$
5. $f(x) = x^2 + 3x - 1$; find $f(x + 1)$	6. $g(x) = 7x + 3$; find $g(5x - 3)$

Use the given functions to evaluate each of the following.

$f(x) = -x^2 - 5$	$g(x) = x^2 - 2x + 3$
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7. $f(a)$	8. $g(3a)$
9. $f(x+1)$	10. $g(x - 3)$
11. $f(-x)$	12. $g(-x)$
13. $g(4b)$	14. $f(a - 1)$

ANSWERS

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| 1. $-16z + 1$ | 9. $-x^2 - 2x - 6$ |
| 2. $12a^2 + 8$ | 10. $x^2 - 8x + 18$ |
| 3. $-27y^2 + 6y - 1$ | 11. $-x^2 - 5$ |
| 4. $b - 2$ | 12. $x^2 + 2x + 3$ |
| 5. $x^2 + 5x + 3$ | 13. $16b^2 - 8b + 3$ |
| 6. $35x - 18$ | 14. $-a^2 + 2a - 6$ |
| 7. $-a^2 - 5$ | |
| 8. $9a^2 - 6a + 3$ | |