

Homework #45 ~ Simplifying Algebraic Expressions

Directions: Simplify the following algebraic expressions. SHOW ALL WORK.

1) $-4(-t+7) + 5(4+8t)$

$4t - 28 + 20 + 40t$

$44t - 8$

2) $8(z+7) + 8$

$8z + 56 + 8$

$8z + 64$

3) $2(4b+7+5b^2) - b$

$8b + 14 + 10b^2 - b$

$7b + 14 + 10b^2$

4) $6 - 3x + 1x - 1 - 10 + 2x$

$-5 + 0x$

-5

5) $-4 + 7(-6t-9)$

$-4 - 42t - 63$

$-67 - 42t$

6) $-3k^2 + 3k + 10 + 3k - 8$

$0k^2 + 3k + 2$

$3k + 2$

7) $-8 + 3(-3n-3)$

$-8 - 9n - 9$

$-17 - 9n$

8) $-(-2v-9+6v^2) + 9v$

$2v + 9 - 6v^2 + 9v$

$11v + 9 - 6v^2$