

## Algebra 1 Chapter 1 Test

Hints and examples to help you with problems most frequently missed:

1) Simplify  $4a + 2b - 12b + 2a + b$

$$= (4a + 2a) + (2b - 12b + b)$$
$$= 6a - 9b$$

6) Hint: Notice that you must perform scalar multiplication before subtracting the two matrices. With the second matrix, treat the scalar (3) as a positive number, and leave the subtraction sign until later.

8) Do your multiplication carefully, and keep track of your signs carefully!

9) Simplify  $5x - 2(x - 10)$

neg  $\cdot$  pos = neg ( $-2 \cdot x = -2x$ )

neg  $\cdot$  neg = pos ( $-2 \cdot -10 = 20$ )

$$= 5x - 2x + 20$$
$$= 3x + 20$$