Name:_____   Date:_____

Homework sheet: Alg2H
Exponents + Formulas + review

Formulas:	Exponents:
1. Page 71, questions: a. b. f. Page 72, question 21:	2. Page 58, questions: 49. 51. 52. 53.

Problems denoted with ** mark are taken from Exeter Phillips Academy (NH) math curriculum.

3. (Book1 60**) Solve
$$\frac{2}{3}(3x + 14) = 7x + 6\,,$$
by first multiplying both sides of the equation by 3,before applying the distributive property.

4. (Book1 62**) In each of the following, use appropriate algebraic operations to remove the parentheses and combine like terms. Leave your answers in a simple form

(a) $x(2x) + 2(x + 5)$

(b) $2x(5x - 2) + 3(6x + 7)$

(c) $5m(3m - 2n) + 4n(3m - 2n)$

5. (Book1 59**) Simplify each of the following:
(a) the sum of $6x + 2$ and $-8x + 5$;

(b) the result of subtracting $5x - 17$ from $8x + 12$;

(c) the product of $7x$ and $4x - 9$.