Page 1 of 2 Math 210 Redwood 2nd

Chapter 3 section 4 Combining Like Terms

Vocabulary:

Term: single number or variable, product of a number and one or more variables

Term: two parts, number – coefficient, variable.

Example 1: Page 197 $3x^2+5xy+9y^2+12$ Complete the table:

Example 2 $a^3 - 3a^2b + 3ab^2 - b^3$

Term	Coefficient	Variable part

Like terms, unlike terms – determined by variable part

like terms – identical variable parts unlike terms – different variable parts.

Apples, Pears, Bananas

Example 6: page 201

Simplify: 2x + 3y - 5x + 8y

Simplify: Try to write the expression in its most compact form using fewest symbols possible.

Example 7 -2x - 3 - (3x + 4)

Try: -3a + 4b - 7a - 9b

-9a - 4 - (4a - 8)

Example 8: page 202 2(5-3x)-4(x+3)

-2(3a-4)-3(5-a)

Page 2 of 2 Math 210 Redwood 2nd

$$-8(3x^{2}y-9xy)-8(-7x^{2}y-8xy) (a^{2}-2ab)-2(3ab+a^{2})$$

Example 11: page 203

The length of a rectangle is three feet longer than twice its width. Find the perimeter P of the rectangle in terms of its width alone.