

	ALGEBRAIC EXPRESSIONS
	$3xy^2-7x+8y-5$
<u>Vocabulary:</u>	
variable	
constant	
expression	
algebraic expression	
coefficient	
terms	

① EXAMPLE: Simplify these.

a) 
$$-5x + 4 - 7x + 9$$

b) 
$$3xy^2 - x^2 + y - 5xy^2 + 2$$

c) 
$$3a(a^2-5) + a^2(a-1)$$

d) 
$$4[3(2y-1) + 5(2y^2 - y+1)]$$

② EXAMPLE: Evaluate these expressions when x = 6 and y = -3.

b) 
$$\frac{2x + y}{x} =$$

c) 
$$y^2-x$$

## **CONSTRUCTING EXPRESSIONS**

See box on page 41 of text for suggestions

- ③ EXAMPLE: Write an expression for each of these. (Even problems from text)
- a) (#6) Fifteen decreased by 3 times a number, n.
- b) (#8) The product of a number, y and 10 is decreased by 35.
- c) (#22) The absolute value of the quotient of a number, *n* and 4.
- d) (#46) The amount of money (in cents) represented by m dimes and q quarters.

- 4 MORE EXAMPLES: Write an expression for these.
- a) (#52) The amount of water in q quarts of a food product that is 65% water.
- b) (#62) The sum of two consecutive even integers, the first of which is 2n.
- c) (#68) Express the area of this triangle.

