3.4	
	Lecture 08/23/23 M HW
	Aly Exp.p. 13 Kelerhans, Takkes, Graps pay 17
	Algebraic Expressions Hu Sind Hu me many
Dems:	by a letter. Eg. X, y, Z.
	V
	· An algebraic expression is a combination of variables
	and numbers along with + -, -, x.
	and numbers along with +, -, -, x.
	· The terms in an algebraic expression are separated
1	by +.
	2x2, 7x, 1 are the terms of the above
	expression.
	A Meson wild in wordship To contract of our month losses
	· A term with no variable is called a constant term.
	Is the constant term of the above expression
	Brink pale you
	. The number attached to a variable is called a
	coefficient.
	2 is the wething of 2x2.
,	1) I vac coorrigionit o.
	Ex' 1 15 (10) coelected and recold now of each less
	Ex: List all coefficients and variable parts of each term
	0+
	-13xy=2 + 76

	Term variable part wefficient part
	-13xyz2 xyz2 -13
	\times \times
	A variable part can contain more than one variable!
	Combining Rike Termi
beh	Terms whose variable para are exactly the same
	are called like fam.
	Me rous constine like terms by goldung the
	We can combine like termy by adding the coefficients top (annot combine unlike terms!
	Cocynition is the contract con
- 1	2: 1:5
136	Simplify - yx+ xy3 - 2x2y2 + 3xy +15x2
b	
-	Identity like tems.
9191	V
	(-1+3) yx + xy3 -2x2y2 +15x2
	2yx +xy3 - 2x2y2 L15x2
	Evaluation!
	Petri. Evaluation is the process of substituting
	valves for unknown variables and performing all

operations.

Ex: Faluate known +3++2+++1 where t=-1 $(-1)^3 + (-1)^2 + (-1) + 1 = (-1) + 1 + (-1) + 1 = (0)$ Distributive Property Thm: The D.P States given any the numbers a, b, and a(b+c) = ab + ac (b+c) a = ba+ (a Ex. Simplify the expression: 6(x-y)-9(y-x) 6(x-y) - 9(y-x) = 6x - 6y - 9y + 9x = 15x - 15y = 17 + 1Ex Does at 5 = 5 for one #\$ a and \$6\$? No take a = 1 + 1Relations, Tables, and Graphs Rem. A relation is a collection of pairs of numbers (a,b). We call a the x-cord. and b the y-cord. mesay an is related to b. Ex: Lonsider the relation 3 (1,2), (2,4), (3,6)?

I is related to 2. We wouldy represent relations in a tew ways: Tables, bragams and Gaps. Ex: Given on the relation Represent the releitin 2(34), (3,5), (5,2),(2,5) 3 Ecopoan using a table, diagram and graph X-cord 1 y-ax1) (3,5) . (5,2) X -axis

Dem The Domain of a relation are the possible x's aprilian

coord in our relation and the range is the possible y-coord in our relation Ex: Photomorp Whent is the domain and range of the relution ? D: 21,23 R: 22,3,73 Ex: 3d) p.19 Wheet is the demain and n=31,2,4,53 R={1,2,3,53