Homework Journal 5 8.8 CM TICH S 3.3 question 1 The function f determines the cost (in dollars) of a new Honda Accord in terms of the number of years t since 2000. That is, f(t) represents the cost (in dollars) of a new Honda Accordet years after 2000. a. The cost (in dollars) of a new accord in 2008? F(8) we don't know how much money it cost but we do know the years. We are comparing it to the year 2000! Therefore we have to subtracted 2008 nd 2000 1 7 autonut to song of b. How much more a new Accord costs in 2013 as compared to the cost of a new Accord in 2010? f(13) -f(10) we are comparing the cost. This means that we have to subtract 2013 From 2010. Since 2000 is 1/38 away from 2013 Its F(13). The same 15 for 2000 from 2010. c. A new Accord in 2013 is how many times as expensive as a new Accord in 2010? (f(13) + wind this instance we were a sked about F(10) now much more but how many times as expensive. In this instance we have to divide in order to find how many times its expensive d. \$960 dollars more than the cost of a new accord in 2016 F(16) + 960 of in this instance we have to subtract 2016 to 2000 in order to find the socrace difference. from this distance we put it into function nutation THE QUESTION WE NOVERDINATED ADD AND THE MI and pagamay bus domain and range on In this question we have to learn to use function notation in order to find the new accord and the costs with just function notation.

a

Homewark Journal 5 1 MOH 250B & & 3.3 Question 6 A task has 14 gallons of water in it when water begins draining from the tank. (Recall that water weight 8.345 pounds per gation) an appropriate contraction a. If 26 pounds of water have drained from the tank, how many gallons of water are comaining in the tank? 26 3.1156 14513.1156 = 10.88440 The question 8.345 asks for 26 pounds. We need to figure b. Define a function f that determines the number of gallons of water in the tank, f (w), in terms of the number of pounds of water that have drained from the tank since the tank started draining, with f(w) = 14-w The gallons are 14. we are 8.345 trying to figure out and fraction for for this instance we durden winby wathe Epinds box Auaters . we find the totallow or brood man of a straight co what is the domain of of? with order to find CO1116, 837 day was soon withe domain we have d what is the range of f? to And what wis. Commendate with with with equal the # RECOIL FORD WILD TO 120) of thoty makes 1/8/345 . IV. In range it can only go From O to 14 DIE The max gallons are ly & H only goes down to O. on Estate during by say sometimes sint count in this question we have to figure out functions and also found the domain and range by the to grens context in our work 2000 2/14 11 ENCHOR NOTATION IN Order to find the were accept and of the costs with most further

			4	
3.3 Question 8	X	(K) 3	19 11.8	
a evaluate f(1.55) } I ANT MOY	(0)	1304	919 ·D	
F(1.5) = {-5.1	1	0		
we first look at × blc of	1.5.	75/-1	(>)7	
F(1.5). 1.5 goes +0 -5.1.	2	0		-
b. solve fox= s.7 for x 11 1001	153x	D 5917)	J17119 :01	
x=3 (14/51N) 4 - 1/612) 5 = (51x) p				

in this instance we bok at f(x) instead of x since we don't know the answer.

c. what is the vertical intercept of f? (15)

In order to find the vertical intercept we got to look at the answer and unoteen * x has a zero will give \$ us the answer. Vertical intercept is the "y-intercept".

d. 11st all nonzental intercepts.

In this instance the "roots" are x-intercepts which means (#,0). When we look at the table the answer would be 1 & 2

in this requations we have to use the table in order to evalvate functions and either figure the x with the answer or x in terms of fix.

8 Met DWD & & 3.4 Question 5 a- evaluate fls) given that f(x)= x2+(15-5x) f(s) = 3/8 111 3: ste x 10 2001 421 14 011 1 LES OF ELECTS TO THE b. evaluate g(xtz) given that g(x) = 3x2-5x+q g(x+2)= 3(x+2)2-5(x+2)+9 C- Evaluate n (2x) given that n(y) = y3-6 . marcha with more Eyasha h(2x) = ((2x)3-6)++(8,(2x))= 2x+) = 2x+ in these questions we plug in our number. for instance with fish we plug it in into equation. For b we also have to input the equation (x+2) into all the xis in the equation. For c we are asked to input 2x but we have to make sure we add the M poventhesis a so story out so sold sint of VICENITY (#13), WIVER US (OTE IN THE TODAY en som som the company of in this problem we have to learn the vite of function notation wand learn to input it into our equations and another storious of melos in THE END ALLE THE CHILLER OF X IN HOME O