Interesting obs The set of ten multiples of 10 will give 120's, not 1 eat the set of ten multiples of 10 will give 120's, not 11 eat the end :. Total no. of 0's at the end: 12+12=24 Proble: The numbers a and b satisfy the equation 56a = 65b. Prove that .56 = 2.2.2.7 65 = 5.18 ... god(a,b) = 1 ... a and b must be The multiple used on both sides of the egn. must be the same. a multiple of 5.18 and 2.2.2.7 respectively. i.e. a= n.5.13 b= n.2.2.2.7 for some ne N $1.0+b=n(56+65)=n\cdot |2|=[n\cdot |1\cdot |1]$ Preb 12: Find all solutions in natural numbers of the equations a) 22 y=31 $(\chi+y)(\chi-y)=3).1$ $\chi=16, y=15$ $\chi=16, y=15$ $\chi=16$ b) 7=y= 303 7+y=01 7=0 y=-15 x=-157=52 y=49 $(\chi^2+\chi)(\chi-\chi)=303=101.3$ $\chi+\chi=101$ $\chi-\chi=3$ $\chi = 52 \text{ y} = -49 \text{ X}$ 9 + 9 = 909 9 = 152 9 = 151 9 = 151 9 = 151[Prob 13:] Find the integer roots of the equation 2727-7-3=0 242+1=3 $\frac{13.9}{\sqrt{2}+2} = 3 \Rightarrow 2(2+2+1) = 3 \qquad 2 = 1 \qquad 2+2+1 = 3 \qquad 2+2-2=0 \qquad 2+2-2-1-2 \qquad 2+2-2-1-2 \qquad 2+2-1-2 \qquad 2+2$ 2421-7-2=0 (7-1)(2+2)=0