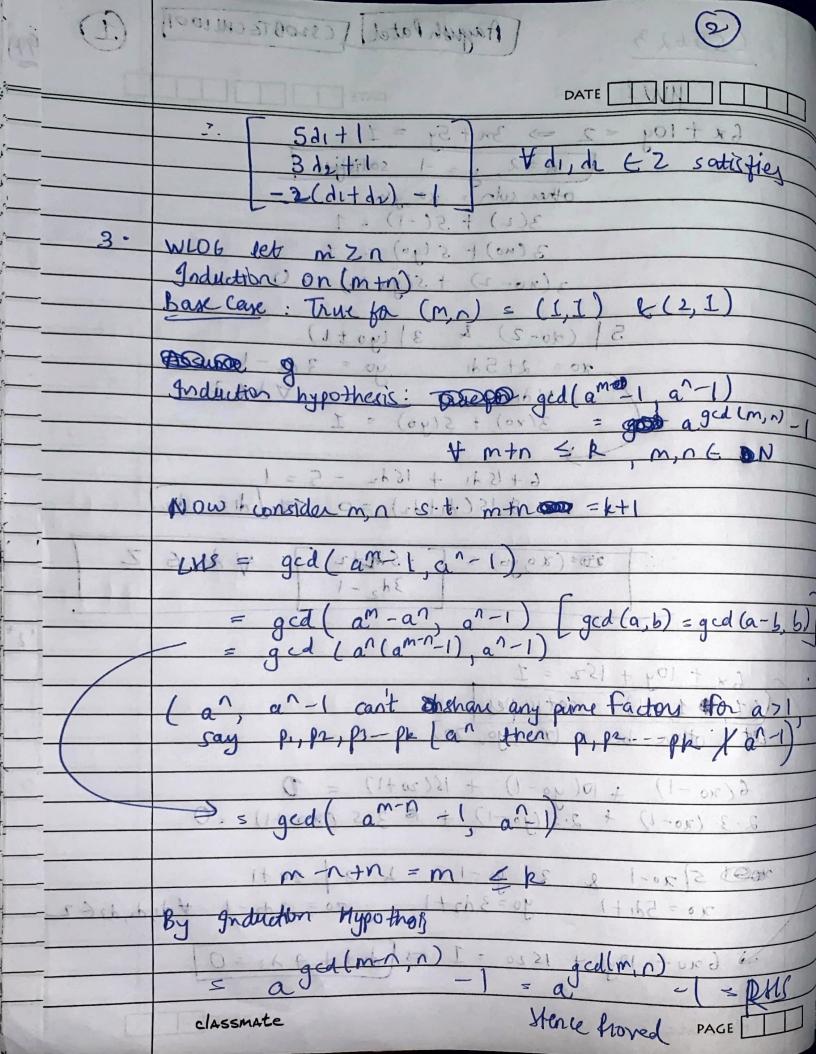
Agush Patel [CS20BTECH100] (55627 HW-1 DATE 6x+10y=2 => 3x+5y=11+16 on=2, y=-1 satisfier 3(2) +5(-1)=1 3 (no) + 5 (yo) 1= 11 101 101 8 3 (no-2) + s(yo +1) 1= Ondulas 5 (20-2) & 3 (40 +1) 10 = 2+5d1 yo = 3d2-10000 (n,m) bp (1) = 3(x0) + Sly0) = 1 t mtn Le more an 6+61 + 1612 -5=1 1+ 000 8 15 (dita) = 0 1= 1 di = 1 do : 1 20 = (x0, y0) = 5 +5 de+2 5 4 dru 6 Z bx + 10y + 152 = 1 2. (100 1,00) I satisfies has Ino let other be (20, 40, 20) 6(x0-1) + 10(y0-1) + 15(20+1) = 1 2.3. (no-1) + 2.5 (yo-1) + 15 3.5 (20+1) ==0 200 5/20-1 & 3/ go-1 m= 2/12/ 29+1 20=5d1+1 40=3d2+1 20=2d2-1 +d1,d262 620+1040+ 1520 = 1 = dut de 7 23 = 0 classmate) work PAGE



2x + 3y + 52 = 0 Consider 2 = -1 $2n + 3y = 5 \Rightarrow 2(n-1) + 3ly - 1) = 0$ 3 | x-1 | x = 2 | xy-1 $1 = 3k+1 \Rightarrow y = -2k+1 \quad \forall k \in \mathbb{Z}$ z=-2, $2x+3y=10 \Rightarrow 2(x-2)+3(y-2)=0$ $x=3k+2\Rightarrow y=-2k+2 + k \in 2$ 2. 420-d when dEZ n= 3k+d, y=-2k+d is a solution 3 htd -2k+d Vk,dEZ is the soln set. classmate PAGE