Max Shi Ipbdury unflor I have ab sof by the start on Freeze 4. Griben f(e)= g-1 25-1 25-1 +e-E+ Te-E find s(e)= g-1 25-1 25-1 (1-e-25) 3. 9(+)= 2-125002(1-e-25)3 2-1 25-1 - (25-1)e-25} = 1-125-13-13-8-25-1 25-1 =-253 = -1+e-t+3te+-(-1+e-(t-2)+3(t-2)e+-2)  $g(t) = -1 + e^{-t} + 3te^{t} - (-1 + e^{2-t} + 3(t-2)e^{t-2}) \cdot U(t-2)$ 5. foc)2 &-1/2 35-15 3 (5-1) - 6.27 (5-1)2+22 (5-1)2+22 = 2-1/2 + · 35-15 } = 3 5-1/3-1 2-3 5-1/2-125 = 2 2 -1 35-15 3 = 3 e cos 2e - 3 e sin 2 = = 2 2-1 535-15 3 = 1 2 - 1 2 35 - 15 2 - 2 d-1 / 35-3-127. 7. f(t)= 4-4(U(t-2)) A + St = 5 (set) A(s+1)+B(s)=C y' + 24 = 4-44(8-2), 46/20 As+ ZA+Bs=C £{4'+ ±43 = £{4-4(4(1-2))}{ = Arcs Arcc sy-y6)+27= 5- 8-25 ASG05=0=> AS=-15-> AZ-B &C24, for C=1, =7B=-26 S/+ 1/ - 4 - e-15 A = 8 Bz -8 A= 2 1 = 5(512) - 8(512) 1 = 8-81 - e<sup>2</sup>(3-3-1/2) 1 = 8-81 - e<sup>2</sup>(3-5-1/2) 2 = 5(1/2) - 8-81 - e<sup>2</sup>(3-5-1/2) B--2 8-1213 - 5-128-5, -e-3(=-5,1)} y= 8-e-12-(2-e-25) u(e-2) 428-e-12t-(2-e1-1/2) U(e-2)