

Gobriel Emerson glescoped HW2 Duc 150 = 1.21)

a.) Step = 
$$4u(t+1)$$

December 20

C.) Staircose up =  $2u(t) + 2u(t-2) + 2u(t-3)$ 

e.) Hat =  $2u(t) + 4u(t-1) - 4u(t-3) - 2u(t-4)$ 

1.28)

a.)  $\int_{-\infty}^{\infty} t^3 S(t-2) dt$ 

=>  $t^3 = f(t)$ 
 $t=2$ 

=>  $(2)^3 = [8]$ 

b.)  $\int_{-\infty}^{\infty} \cos(t) S(t-1)/s dt$ 

=>  $f(t) = \cos(t)$ 
 $t=\frac{1}{2}$ 
 $t=\frac{1}{2}$