South Ahmed HW #7 1 f: L(e) -7 t2 , L(e2te) -7 (5+2) 2 L Ete2+ u(t-1)3 -7 (5+2) 1 LEX(8) = e / (5+2) 2/ B: L(e-af) = sta L{e⁻²⁶ u(+)} = \$+2 L{e⁻⁴(+2)} = e²⁵ L(x(+)) = 5+2 + e²⁵ 2 A: Transfer to 5-domain X(s).(65°+55H) = e-(5+3)/(5+3) + 3 (E-1H) u(+1) while 652 +55+1= (250+1) (35+1) X(2)= (243)(5241) + 2(5241)(5241) B: 1= A(354) (2541) + D(5+1) (2541) + C(5+3)(354) prok 5=-3 prok 5=-±
A=+0 B=+ prok 5=-± A = 40 B = \$ and ?

$$\sum_{(i)} x = (i) + \sum_{(i)} x = (i)$$

B; for
$$x(t) = \frac{1}{2} (t)$$

 $y(s) = \frac{1}{2} (t)$
 $y(s) = \frac{1}{2} (t)$