Engle 68 - Cincit Shory problem ret 160 - Use purson expunsion to find the Home - dominin murchon fext corresponding to the Collowing trumprim: as fiss = /(s+1)(5+3) 64 (STI)(ST3) = A/ + B/ S+3 48=A(st3) + B(S+1); Conside 5=-3,-1 11: 5=-3; by 4(-3+3)+B(=3+1) = 8 4 -26 = 8 => 8 = -4/ 111:5= -16 AL-1+3) + B(-1+1) = 8 4 A(2) +0=8 ir July Suffer Senore 1-15/cs> - 4 - 1/5]-1 1/2/1)-(01-1/5+3 17 1(+) = 4 e - 1e-38 4 (e-t-e-34) 1 4 4 = 1/52 + 15 + 8 :5 = 0 = 1 5. = 1/5cs+2+12).5 = -2+12 = 51-2+12+2+12) = jos -0.5 C = 1/5 (5+2+12); Counder that B = C probity Luplan 1, west 1 (-0.5+ y(0.5) 1 /5+2 12 + (-0.5- 10.5) 1/0+2+ 12

Calle 1, west + (-0.5+ y(0.5) = (2-16) + yen + (-0.5-10.5) = (2-1) + 1 Single 4 uct + (60.5+ 1(0.5) = 2 V(+) + (-0.5-1(0.5) = 2+ = 1 + UC+) Pistribue 1, u(+) -0.5e-2+e ++ u(+)+ 1(0.5) = 2+ 2 u(+) - 0.5 = 2+ - 12+ u(+) - 10 c) = 2+ 4 ua -0.52-2+ (e+2+ e-+2+) uct) + 10.5e2+ -0 Just) 4 The referring to table 1, fet) = ues - e-2+ cos (2+2 vet) - e-2+ since knows

- 2
(- fcs) = 3/cs+12(s+2)2
ib fest = A(S+1) + B/(S+2) + C/(S+2)2
1 5 = A(5+2) + B(5+1)(5+2) 1 C (5)
ii. 45=-1; Al-1+2)2+ B(-1+1)(-1+2) + C(-1+1) = 2
45=-2=7 6=-2
iv. Revall. A = B * = -2.
18. Rest = 3/5+1 -2/5+2 - 3/(5+2)2
v. 1 for = 2e + v(+) - 2e - 2t v(+) - 2+ e - 4 v(+)
Pefn to
laphre
child and find value of numbers
te falloury seinenform
11 F 10 = 100 (5+3)
S(StS)(St20)
(m c 100 C e + 3)
lin s 100(c+3) s(s+s)(s+20)
1 1 h 1. 5(1+3/2)100 -x0
Franky & Sim 5(1+3/2)100 -50 populy 500 5(1+2/2)
11, Conde 100 (0+3) - 300 = 3V
(0+5)(0+20)
ef (3) = 5-200/ /s (5150)
$\frac{4 \text{ lim } S(S-200)}{S+S} = \frac{S-200}{S+S}$
1 - 200 - 1
1 15 (m 5 (1 - 200) = 1 - 200 = 1 5 - 5 (1 + 595) 1 + 596
1 1 1 Consider Cim 0-200 = -4V
0+30

Problem 2 4.8.2 a. The awayy soul in the circuit is zoro at the time when moth is direct (+=0), Find 101) Captace . 4 for Gruit Court Voltage from VCt) - 2 VCS) domesta N(+) = 160 =7 N(5) = 169/ · Capacitor - 10.25 F Industor = 9H Smale 1(5) = VCD/ = 160/49.85 + 4 V -1/160/ +4.88 +4) = 1-1/1/2+1.25 +1 Couriden 52 41.28+1 6,52 + 1.25 + 0.36+0.64 Ly (5+0.6)2+0,64=7 (5+0.6)2+0.82 · super to by /s+a2+w32 = - a sin(n+) 111. J Thurpre, i(+) = 500 0.6+ sin (0.8+)



