Find the Inverse Laplace Transform of the given function. Use partial Fractions when Aspropriate (Now Inverse laplace) Based on Q6 of H.W. 20 2-1-4 + 22 + 50 2 (5+3) + 3(5+3) $F(s) = \frac{5s^2 - 3s - 4}{5^3 + 55^2 + 69}$ さしてき了十号に[s+2]+5gに[s+5] 1 (-4) + 5 (e-2+) + 50 (e-2+) Ally partial Fractions (do Algebra) 552-75-4 = 55-75-4 = A B (5(52+55+6) = (5)(5+2)(5+3) = (5) + (5+2)(5+3)

5 5-38-4= A(5+2)(5+3) + B(5+3)(5)+(65+2)(5)

|V+S=0| -4=A(1)(3) 20+6-4=b(5) 45+9-4=3(5) 50=3(5) 50=3(5) 6=50 A=4 A=4 B=32 C=50