Problem 1

F(s) =
$$\frac{S+3}{(940)}(s^2+630)$$
 = $\frac{A}{5+5}$ + $\frac{B+C}{S^2+4s+5}$ = $\frac{A}{5+(5+C)}$ + $\frac{B+C}{S^2+4s+5}$ = $\frac{A}{5+(5+C)}$ + $\frac{B+C}{S^2+4s+5}$ + $\frac{B+C}{S^2+(5+C)}$ = $\frac{A}{5+(5+C)}$ + $\frac{B+C}{S^2+(5+C)}$ + $\frac{A}{5+(5+C)}$ + $\frac{B+C}{S^2+(5+C)}$ + $\frac{A}{5+(5+C)}$ + $\frac{$

$$3 = A(0+0+5) + (5)(c)$$

$$3 = (-\frac{1}{5})(5) + 5c$$

$$3 = -1 + 5c$$

$$4 = 5c$$

$$0 = 2(-\frac{1}{3}) - 6B + 2(\frac{4}{5})(5)$$

$$0 = 2(-1) - 30B + 8$$

$$0 = -2 + 8 - 30B$$

$$0 = 6 - 30B$$

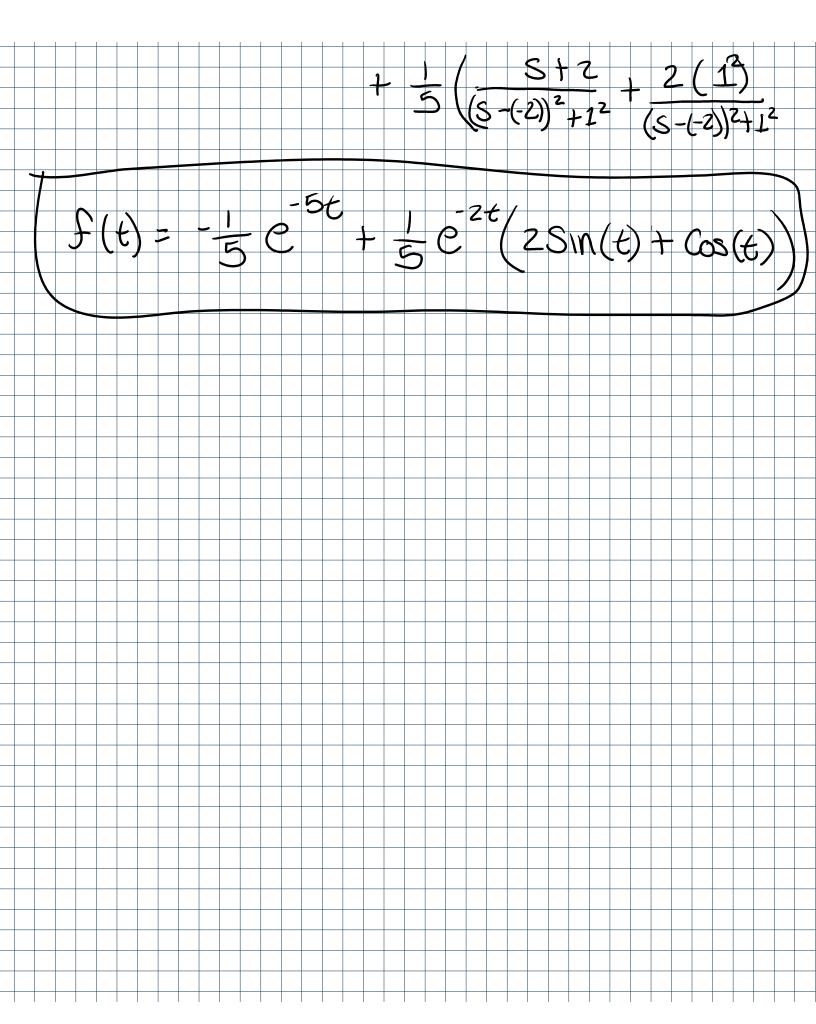
$$30B = 6$$

$$13 = \frac{1}{5}$$

$$-m(-c(5)) = 1$$

$$Re(F_{2}(5)) - 2$$

$$F(5) = -\frac{1}{5}(-\frac{1}{5}) + \frac{1}{5}(-\frac{1}{5}) + \frac{1}{5}(-\frac{1}{5}) + \frac{1}{5}(-\frac{1}{5})$$



Problem 2:

$$\ddot{x} + 4\dot{x} + 3\dot{x} = 1^{-\frac{1}{5}}$$

 $\int_{0}^{5} \left\{ \int_{0}^{12} \left\{ \int_{0}^$

$$F(s) = \frac{2s^{2} + q_{8} + 1}{(s)(s+1)(s+3)} = \frac{A}{s} + \frac{B}{s+1} + \frac{C}{s+13}$$

$$2s^{2} + q_{8} + 1 = A(s+1)(s+3) + B(s)(s+3) + C(s)(s+1)$$

$$\frac{8}{5} = 0$$

$$1 = A(1)(3) + 0 + 0$$

$$1 = \frac{A}{3}$$

$$\frac{A}{s+1} + \frac{C}{s+13}$$

$$1 = A(s+1)(s+3) + B(s)(s+3) + C(s)(s+1)$$

$$\frac{A}{s+1} + \frac{C}{s+13}$$

$$\frac{A}{s+1} + \frac{C}{s+13}$$

$$1 = A(s+1)(s+3) + B(s)(s+3) + C(s)(s+1)$$

$$1 = A(1)(3) + 0 + 0$$

$$1 = A(1)(3) + B(1)(3) + B(1)(3) + C(3)(3) + C(4)(3)$$

$$1 = A(1)(3) + 0 + 0$$

$$1 = A(1)(3) + B(1)(3) + B(1)(3) + C(3)(3) + C(4)(3)$$

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