Ar[2.8 Find f(f) given
$$F(s) = \frac{(Ss^2 + 2ds + 32)}{(s+2)(s+4)}$$

$$F(s) = \frac{(5s^2 + 24s + 32)}{(5+2)(s+4)} = \frac{5s^2 + 24s + 32}{5^2 + 65 + 8} = 5 + \frac{(5+2)(s+4)}{(s+2)(s+4)}$$

$$F(s) = 5 + \frac{-3}{s+2} + \frac{+2}{s+4}$$

$$f(t) = 5S(t) + 3e^{-2t}v(t) + 2e^{-4t}v(t)$$

AP 22.10 Use initial— & final—value theorems to find resp. values of
$$f(t)$$

Not $f(t)$

Not $f(s) = \frac{40}{(s^2 + 4s + 5)^2} \Rightarrow \frac{1}{s} = 0$ in it is in $\frac{40s}{(s^2 + 4s + 5)^2} = 0$ in it is in $\frac{40s}{(s^2 + 4s + 5)^2} = 0$ in it is in $\frac{40s}{(s^2 + 4s + 5)^2} = 0$ from $\frac{40s}{(s^2 + 4s + 5)^2} = 0$ from $\frac{40s}{(s^2 + 4s + 5)^2} = 0$ from $\frac{42.4}{(s^2 + 3)(s + 4)(s + 5)}$ (theory)

Note that $\frac{4s^3 + 7s^2 + s}{(s^3 + 2s^2 + s)} = \frac{4s^3 + 7s^2 + s}{(s^2 + 2s + 1)}$

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12.29 A+ +=0, switch to be a local derive the idiffyed that governs vo for
$$t \ge 0^{t}$$

b) SWO show that $V_0(s) = V_0(s) + V_0(s) + V_0(s) = V_0(s) + V_0($