(ratriel Emerson 9+e0002 HW7 Pue 3/5
39)
$$X(s) = \frac{4s^2 + 28s + 40}{s(8+3)(s+4)} = > \frac{4s^2 + 28s + 40}{s^3 + 7s^2 + 12s}$$

$$X(0^{+}) = \lim_{S \to \infty} SX(S)$$

$$= \frac{48^{3} + 288^{4} + 408}{8^{3} + 78^{3} + 128} = \frac{4 + 28 + 40}{1 + 7 + 12} = \frac{72}{20}$$

$$=$$
 $\frac{18}{5}$

$$=\frac{48^{8}+288^{9}+408}{5^{8}+78^{8}+128}=\boxed{\frac{18}{5}}$$

3.10)
$$X(5) = \frac{5^2 + 4}{25^3 + 45^2 + 105}$$

$$X(0^{+}) = \lim_{S \to \infty} SX(S) = \frac{18^{3} + 48}{28^{2} + 45^{2} + 108} = \frac{4}{\infty} = 0$$

$$\chi(\infty) = \frac{1}{5}$$
 $= \frac{15^{8} + 48}{28 + 45^{2} + 108} = \frac{5}{2 + 0 + 10}$ $= \frac{5}{12}$