\$4.4 - I.F. + L.R., part 2

I.F.:
$$90, 900$$
, L.R.

I.F.: $90 - 000$, 0.000 , Not initially L.R.

Ex: $\lim_{X \to 1} \frac{X}{X-1} - \frac{1}{\ln(X)} \to \frac{1}{0} - \frac{1}{0} = 00 - 00$, I.F.

$$\lim_{X \to 1} \frac{X \ln(X) - (X-1)}{(X-1) \ln(X)} \to \frac{1 \cdot 0 - 0}{0 \cdot 0} = 0$$
, I.F.

LR. $\lim_{X \to 1} \frac{\ln(X) + X(\frac{1}{X}) - 1}{\ln(X) + (X-1)\frac{1}{X}} = \lim_{X \to 1} \frac{\ln(X)}{\ln(X) + 1 - \frac{1}{X}} \to 0$

$$\lim_{X \to 1} \frac{\ln(X) + X(\frac{1}{X}) - 1}{\ln(X) + (X-1)\frac{1}{X}} = \lim_{X \to 1} \frac{1}{\ln(X) + 1 - \frac{1}{X}} = \lim_{X \to 1} \frac{1}{1 - \frac{1}{X}} = \lim_{$$