Calculus L'Hospital Rule

Evaluate

Valuate
$$\lim_{\chi \to 0} \frac{e^{\chi} - e^{-\chi} - 2 \log(1+\chi)}{\chi \sin \chi}$$

Sol.
$$e^{\circ} - e^{\circ} - 2 \log 1 = \frac{0}{0}$$
 form

L'Hospital Rule.

$$\lim_{\chi \to 0} \frac{e^{\chi} - e^{-\chi} + \chi}{(1+\eta)^{2}}$$

$$= \frac{e^{0} - e^{0} + 2}{0 + (1+\eta)^{2}} = \frac{2}{2} = 1 \text{ disk}$$

91(2)