problem session 1

- Find the lim sup and lim in f

(1)
$$x_n = 2^{n(-1)^n}$$

(1)
$$x_n = 2$$

(2) $x_n = 1 + (-1)^n + 2(-1) \left[\frac{n}{2}\right]$

$$(4)$$
 $\times n = (1 + (-1)^n) n$

(5)
$$X_{n} = (-1)^{n} \left(1 + \frac{1}{n}\right)^{n} + \frac{9h}{3} \frac{2n\pi}{3}$$

$$(7) \quad \chi_{N-5} \stackrel{\sim}{\geq} (-1)^{k}$$

(8)
$$\times n = (1 + \frac{1}{\sqrt{2}})^{N} \left(1 + \frac{(-1)^{n}}{\sqrt{3}}\right)^{N}$$

- Prove int 1+2x = 5/2

- Rudin 1.5, 2.5, 3.1, 2, 3, 4, 5