$$3.8)6) \qquad (1+(\frac{1}{2})^n) = 3 \left(1+(\frac{1}{2})^n\right)^{\frac{1}{n}}$$

$$3.8)6) \qquad (1+\frac{1}{n^2})^n = (1+\frac{1}{n^2})^{\frac{1}{n}} = (e) = 1$$

$$(1+\frac{1}{n^2})^n = (1+\frac{1}{n^2})^{\frac{1}{n}} = (e) = 1$$

$$(1+\frac{1}{n^2})^n = (1+\frac{1}{n^2})^n = (e) = 1$$

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

$$2^{n}_{\mu-1} = x$$

$$\frac{2^{n}_{\mu-1}}{2^{n+1}} = x$$

lin
$$(42)^{\frac{2}{3}} = e$$

[10] when wife e^{t}

3.3) $e_n = n - n^2 = n^2 \left(\frac{1}{n} - 1\right)$ $\frac{1}{n - \infty} = \infty$

[40.6(1)]

 $a_n = \frac{a_n c_n t_n}{a_n c_n t_n} = \int_{0}^{\infty} \frac{1}{n} \frac{1}{n} = \infty$

3.10) $\frac{2}{n + 3}$ $\frac{1}{n - \infty}$ $\frac{1}{n}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$
 $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$
 $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$ $\frac{1}{n - \infty}$

The an-so

6n -> 610

an6 n -) - 20

obrotrosi (an)) + Ogr z dola => I lima = supan

an 2n

 $\frac{2^{n}}{2!} \qquad \frac{2^{n} \cdot 2}{(n+1)n!} \qquad \frac{2^{n} \cdot 2}{(n+1)(n+2)n'}$

 $\frac{1}{n+1} = \frac{2}{n+1}$ $\frac{1}$

an 5 /2 , 12+12 , 12+12+12 ... }

liman = 9

dn+1 = 12+an

1 = 12+g

2 = 12+g

2 = 2 = 2+2

Toll andbu

(1) an ->+00 =>6n-5+00

(2) 6n = 5-00 = 7 an 5-00

Twan-6n 5620 an6 n -> - 20

obrotresi (an) s + ogr z dolu => 3 lima = supan

$$\frac{2^{n}}{n!} = \frac{2^{n} \cdot 2}{(n+1)n!} = \frac{2^{n} \cdot 2}{(n+1)(n+2)n!}$$

$$\frac{2^{n}}{n+1} > \frac{2^{n}}{n+1}$$

$$\frac{2^{n}}{n+1} > \frac{2^{n}}{n+1}$$

$$\frac{2^{n}}{n+1} > \frac{2^{n}}{n+2}$$

$$\frac{2^{n}}{n+1} > \frac{2^{n}}{n+2}$$