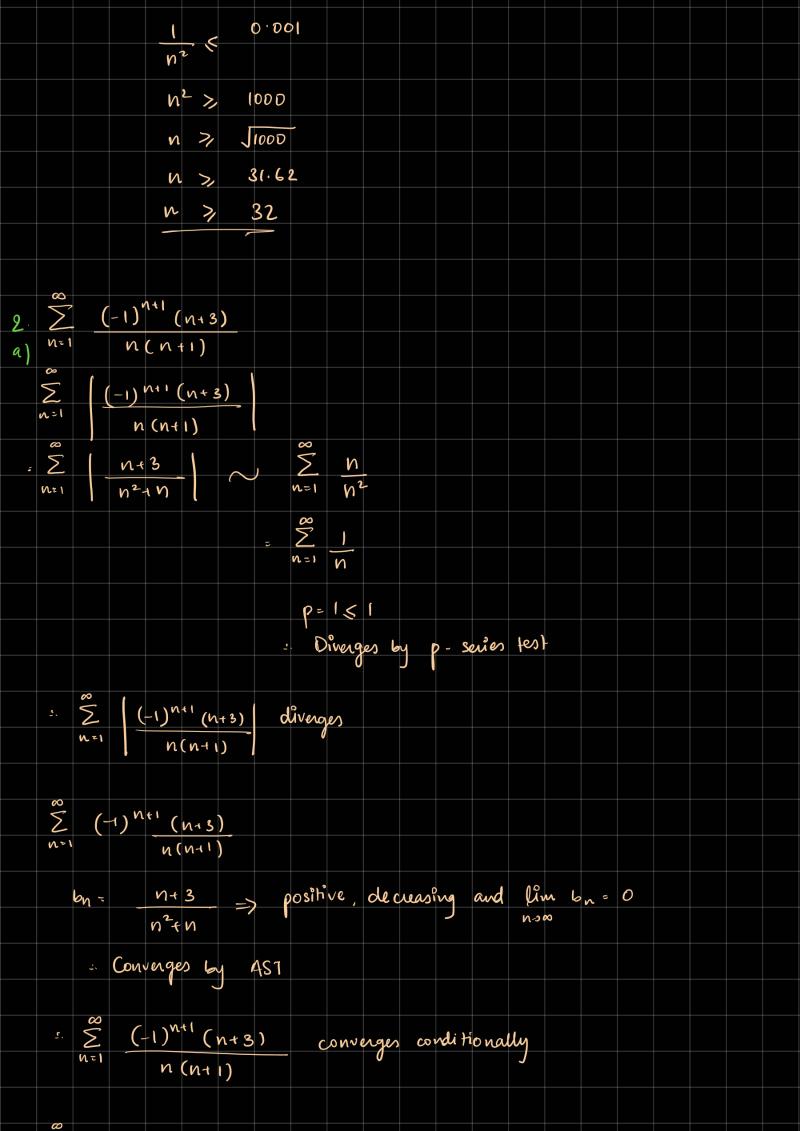
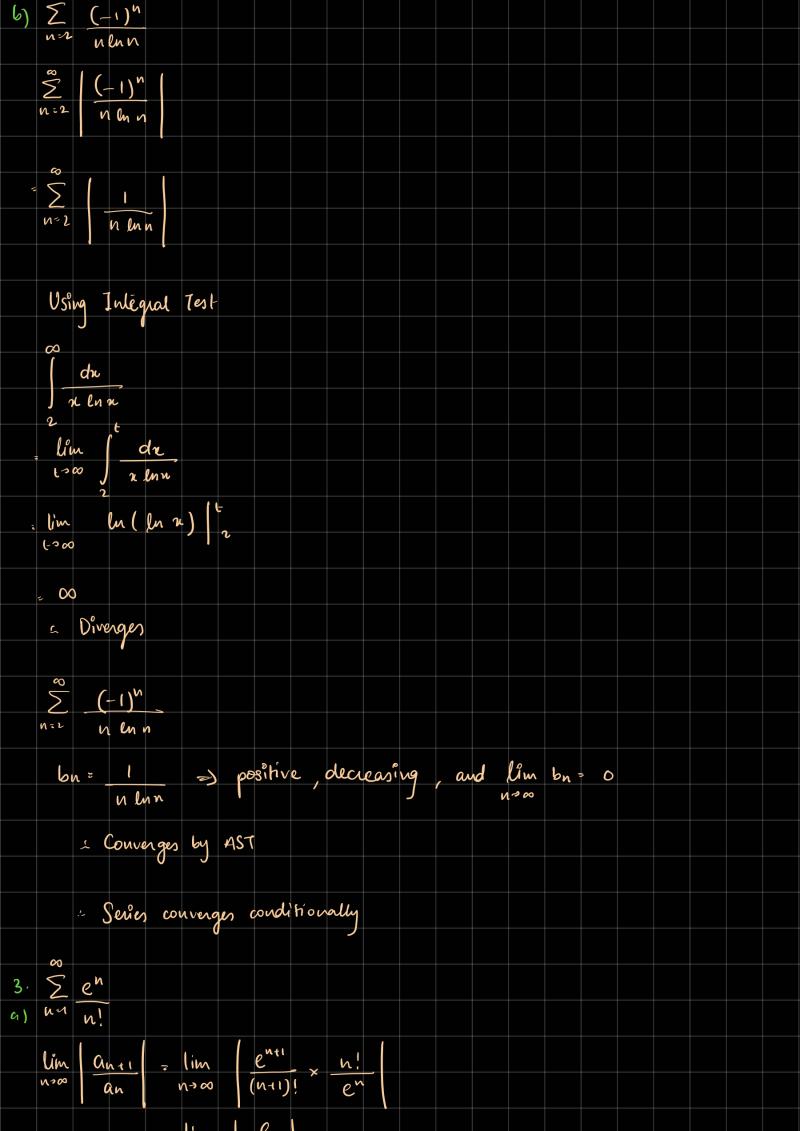
l·	f(n	) =	1													ح	Tupo	rial	8	
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	2 <sub>10</sub> 4		χ <sup>3</sup>	<	S	Ç	ر ا ۱۵		23 23											
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		χ <sup>-3</sup>	dx	٤	lim t³ ∞		n-3	dr			( )	( <sup>3</sup>	dn	€	îm	( )	i <sup>-3</sup> d	n		
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				2n2																





= lim   -		
nso hei		
= 0 < 1		
converges by ratio lest		
$(6) \stackrel{\infty}{\leq} (2n)^n$		
n=1 (13n+1)		
lim [ ( 2 n \n   n		
$\frac{1}{13n+1}$		
= lim \ 2n		
= lim 2n 13n+1		
= lim (2n   13n   13n   1   1   1   1   1   1   1   1   1		
= <u>2</u> < 1		
c converges by root lest		
<b>∞</b>		
4. \( \sum_{\( \) \( \)		
a) "= 1 2"		
lim (-1) ner (ner) ner 2n		
N-200 2n+1 (-1)n(x+)n		
= lim (2 +1)		
n-00 2		
- 1 (241)		
Radius of convergance = 1 2 2		
Endpoints a-R = -1-2 = -3		
Endpoints $a - R = -1 - 2 = -3$ a - R = -1 + 2 = 1		

n=1 2	$\begin{array}{c} \bigcirc & (-1)^{n} & (1+1)^{n} \\ \sum & (-1)^{n} & (1+1)^{n} \\ \sum & (-1)^{n} & 2^{n} \\ \sum & (-1)^{n} & 2^{n} \\ \end{array}$ $\begin{array}{c} \bigcirc & (-1)^{n} & 2^{n} \\ \sum & (-1)^{n} & 2^{n} \\ \end{array}$ $\begin{array}{c} \bigcirc & (-1)^{n} & 2^{n} \\ \sum & (-1)^{n} & 2^{n} \\ \end{array}$ $\begin{array}{c} \bigcirc & (-1)^{n} & 2^{n} \\ \sum & (-1)^{n} & 2^{n} \\ \end{array}$ $\begin{array}{c} \bigcirc & (-1)^{n} & 2^{n} \\ \sum & (-1)^{n} & 2^{n} \\ \end{array}$ $\begin{array}{c} \bigcirc & (-1)^{n} & 2^{n} \\ \sum & (-1)^{n} & 2^{n} \\ \end{array}$ $\begin{array}{c} \bigcirc & (-1)^{n} & 2^{n} \\ \sum & (-1)^{n} & 2^{n} \\ \end{array}$ $\begin{array}{c} \bigcirc & (-1)^{n} & 2^{n} \\ \sum & (-1)^{n} & 2^{n} \\ \end{array}$ $\begin{array}{c} \bigcirc & (-1)^{n} & 2^{n} \\ \sum & (-1)^{n} & 2^{n} \\ \end{array}$ $\begin{array}{c} \bigcirc & (-1)^{n} & 2^{n} \\ \sum & (-1)^{n} & 2^{n} \\ \end{array}$ $\begin{array}{c} \bigcirc & (-1)^{n} & 2^{n} \\ \sum & (-1)^{n} & 2^{n} \\ \end{array}$
Net 1	N > 00
Diverges by geometric series test	Diverges by allemating series lest
- IC = (-3,1)	
	ber always diverges