	MATH 141 - Practice problems 12 - Solution.
Problem	n1.
-	a) $\sum \frac{n}{2n+1}$, Suppose $b_n = \frac{n}{2n^3}$
	$a_n = \frac{h}{2n^3+1} < \frac{n}{2n^3} = b_n$
N=1	$b_n = \sum_{n=1}^{\infty} \frac{1}{2^{n^2}} = \sum_{n=1}^{\infty} \frac{1}{n^2} $ is Converged Since $p=2$ >1
Sa	Zan is Convergent as well
(b)	$\sum_{n=1}^{\infty} \frac{9^n}{3+10^n} \text{Suppose } b_n = \frac{9^n}{10^n}$
	$a_{n} = \frac{9^{n}}{3+10^{n}} \left(\frac{9^{n}}{10^{n}}\right)^{n} = \frac{9^{n}}{10^{n}} \left(\frac{9}{10^{n}}\right)^{n} = \frac{9^{n}}{10^{n}} \left(\frac{9}{10^{n}}\right)^{n} = \frac{9^{n}}{10^{n}} \left(\frac{9}{10^{n}}\right)^{n} = \frac{9^{n}}{10^{n}} = \frac{9^{n}}$
Problem	en2. $a_{n} = \frac{1}{2n+1} \lim_{n \to \infty} \frac{1}{2n+1} = \frac{1}{2n$

