Assignment No.1

OD Test the convergence of the series whose ntw term is given by In (U.T. U. 2017)

Examine the convergence of the series S(\$\square{n}^3+1-n)

Test the convergence for series:

(a)
$$\leq \frac{n^2}{3n}$$

(a)
$$\frac{\sqrt{n^2}}{\sqrt{3n}}$$
(b) $\frac{\sqrt{n^2}}{\sqrt{3n}}$
(c) $\frac{\sqrt{n^2}}{\sqrt{n^2}}$
 $\frac{\sqrt{n^2}}{\sqrt{n^2}}$
 $\frac{\sqrt{n^2}}{\sqrt{n^2}}$
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$$(d) \frac{\sum_{n=1}^{n} \frac{n! \cdot 2^n}{n^n}}{n^n}$$

$$\sum_{n=1}^{\infty} \frac{x^{n-1}}{n \cdot 3^n}$$

$$(f)$$
 $\frac{1+}{1+2}$ $\frac{2+}{1+2}$ $\frac{3}{1+2}$ $+ \dots \infty$