

MATH 202

Name: _____

Co.no: _____

1) Make the following (T) or (F). and correct the false one.

1) $a_n = \frac{\cos^2 n}{2^n}$ is divergent . ()

2) $\sum (-1)^n \frac{n^3}{6 + n^3}$ is convergent . ()

3) $\sum \frac{5 - 2\sqrt{n}}{n^3}$ is convergent . ()

4) $\sum \frac{1 + \cos n}{10^n}$ is divergent. ()

5) $\sum (-1)^n \sin \frac{\pi}{n}$ is not C.C ()

6) $\sum \frac{(-1)^n}{(\tan^{-1} n)^n}$ is divergent. ()

=====

2-find the radius of convergence and interval of convergence of the series

$\sum \frac{(-1)^n x^n}{4^n \ln n}$.
