Name: $\qquad$
If you have a question raise your hand and I will come to you.

## Section:

$\qquad$

Consider each infinite series below. Determine whether the series converges or diverges. If possible, find the sum of the series. You must show all of your work- show your reasons for deciding to use a certain test and support your conclusions.

1. (5 points) $\sum_{n=1}^{\infty} \frac{\cos n}{n^{2}}$
2. (5 points) $\sum_{n=1}^{\infty} \frac{(-40)^{n}}{n!}$
