1. Let
$$\mathcal{I} = \int_{0}^{2} e^{\cos(x)} dx$$

1.1 Calculate L_{40} and R_{40} .
How close are these to the actual value of \mathcal{I} ?

1.2 Approximate \mathcal{I} accurate within 0.01

2. Let
$$\mathcal{I} = \int_0^{\frac{\pi}{2}} x \cos(x) dx$$

2.1 Calculate T_{40} and M_{40} . How close are these to the actual value of \mathcal{I} ?

2.2 Approximate
$${\cal I}$$
 accurate within 10^{-6}

3. Explain how you could have used L_n and R_n in #2.

E 990

・ロン ・四と ・ヨン ・ヨン