1. Let $I = \int_0^2 e^{\cos(x)}\, dx$

   (a) Use Maple to calculate L_{40} and R_{40}.
   [Use the leftsum and rightsum commands.]

   What can you conclude about how close these are to the actual value of I?

   (b) Use similar ideas, and trial and error, to find an approximation for I that you *know* is accurate within 0.01.

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

   (a) Calculate T_{40} and M_{40}.

   How close are these to the actual value of I?

   (b) Approximate I accurate within .0001