Maple problem:
(1) For the following initial value problem, use Euler's method with step sizes $h=0.1,0.02$, and 0.004 to approximate the values of the solution on the given interval.

$$
y^{\prime}=y+\sin (y x), \quad y(0)=0.05 ; \quad 0 \leq x \leq 4
$$

