1. Let $\mathcal{I} = \int_0^1 x \sin(x^2) dx$

1.1 Use Maple to draw and to calculate L_{10} and R_{10}

- 1.2 How does \mathcal{I} compare to L_{10} and R_{10} ?
- 1.3 Find the exact value of \mathcal{I} by using *u*-substitution. Does this agree with your previous answers?
- 2. Let $\mathcal{I} = \int_{-2}^{0} e^{x^2} dx$ 2.1 Calculate L_{100} and R_{100} .
 - 2.2 How does \mathcal{I} compare to L_{100} and R_{100} ?
 - 2.3 How close is L_{100} to the exact value of \mathcal{I} ?
 - 2.4 Approximate \mathcal{I} accurate within 0.1 of its value.

(ロ) (四) (日) (日) (日)