

Approximate the following integrals accurate within 0.01 of the exact value.

1. $\int_0^{3.5} \cos\left(\frac{x^2}{4}\right) dx$

2. $\int_{-1}^2 \cos\left(\frac{x^2}{4}\right) dx$

3. $\int_0^4 \cos\left(\frac{x^2}{4}\right) dx$