

Worksheet 1/14/2025

Find the following integrals.

1) $\int_0^{\pi} x \cos x \, dx$

2) $\int_1^e \ln x \, dx$

3) $\int_0^1 x^2 \sqrt{1-x^3} \, dx$

$$4) \int x^{\frac{3}{2}} \ln x \, dx$$

$$5) \int_0^4 e^{\sqrt{x}} dx$$

$$6) \int \cos(\ln x) dx$$