

Worksheet 1/21/2025

Find the following integrals.

1) $\int_0^2 x^2 \sqrt{4 - x^2} \, dx$

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

3) $\int_0^1 \sqrt{4 + 9x^2} \, dx$

4) $\int_3^5 x\sqrt{x^2 - 9} \, dx$

5) $\int_3^{2\sqrt{3}} x^2\sqrt{x^2 - 9} \, dx$