

Problem 1. Use the trapezoidal rule for $n = 2$ to estimate $\int_0^2 \sqrt{4 - x^2} \, dx$.

A. $4 - 1/\sqrt{2}$

B. $2 + \sqrt{3}$

C. $1 + \sqrt{3}$

D. $3 + 1/\sqrt{2}$

E. $3 + 1/\sqrt{3}$

Problem 2. Is your answer larger or smaller than the integral. Why?

A. Larger.

B. Smaller.