

1. Evaluate each integral.

a) $\int \cos^5 x \, dx$

b) $\int \sin^2 x \, dx$

c) $\int \tan^4 x \, dx$

d) $\int \sqrt{\frac{1-\cos x}{2}} \, dx$ (Assume $0 \leq x \leq 2\pi$.)

Q: The more you take, the more you leave behind. What are they?