

Find or evaluate the integral

1.  $\int_0^\pi \sin^5 x \, dx$

2.  $\int \frac{4}{(4+x^2)^2} \, dx$

3.  $\int \frac{6x}{x^3-8} \, dx$

4.  $\int \frac{\sec^2 x}{(\tan x)(\tan x + 1)} \, dx$