

1. Evaluate each integral.

a) $\int \frac{\cos x}{\sin^2 x - \sin x} dx$

b) $\int \frac{\tan^3 x}{\cos^3 x} dx$

b) $\int (\sqrt{x} + 2)^{10} dx$

Q: In a zoo with only birds and mammals, there are 30 heads and 80 legs. How many birds and how many mammals are at this zoo?