

Find or evaluate the integral

1.  $\int \sec^5 x \tan^3 x \, dx$

2.  $\int x \arcsin x \, dx$

3.  $\int \frac{x^2 + 6x + 4}{x^4 + 8x^2 + 16} \, dx$

4.  $\int \frac{1}{x(\sqrt{3} - \sqrt{x})} \, dx$