

Math 199, Spring 2022
Yigal Kamel
2/4/22

Participation Assignment 3 - Practicing integrals

Estimated Time: 30 minutes - 1 hour.

Goals: Our goal today is to practice solving integrals.

1) $\int \ln(x + 1)dx =$

2) $\int \arctan(3x)dx =$

3) $\int \tan^4 \theta \sec^2 \theta d\theta =$

4) $\int e^{-2x} \sin 3x dx =$

5) Do the following integral in two *different* ways: $\int \frac{x dx}{\sqrt{4+x^2}} =$

6) $\int x^2 \sin(2-x) dx =$