

Math 199, Fall 2022  
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### Participation assignment 3 - Practicing integrals

**Estimated time:** 30 minutes - 1 hour.

**Point value:** 2 points.

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