

Name:

ID #:

Section: 4

Serial #:

1. Evaluate $\int \frac{x}{\sqrt{1-x^4}} dx$.

2. Evaluate $\int \tan x \ln(\cos x) dx$.

3. Evaluate $\int \frac{1+\sin x}{1-\sin x} dx$.

4. Evaluate $\int_1^2 \frac{(t+1)\sqrt{t+\ln t}}{t} dt$.

5. Evaluate $\int \frac{e^{2y}+1}{e^{2y}+1} dy$.

6. Find the area of the region bounded by $y_1 = \frac{2}{\pi}x$, $y_2 = \sin x$, the y -axis, and $x = \pi$.