

MAT 137 (Calculus II) Prof. Swift
In-class worksheet: Trig

1. Evaluate $\int \sin^3(x) \cos^2(x) dx$

2. Evaluate $\int \sqrt{1-x^2} dx$.

Hint: $\sin(2\theta) = 2 \sin(\theta) \cos(\theta)$ is needed at the end of the calculation.