

Directions: Work with your group to find these anti-derivatives. Think carefully about what technique(s) to use. If there are multiple ways to find the anti-derivative ask yourself which is easier.

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

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

3. $\int \frac{2x-3}{x(x-3)} dx$

4. $\int \frac{\ln(x+1)}{x^2} dx$

5. $\int \frac{1}{(x-2)(x^2+4)} dx$

6. $\int \frac{1}{x\sqrt{4x+1}} dx$