# Section 5.7: Integrals Resulting in Inverse Trigonometric Functions

In this section we focus on integrals that result in inverse trigonometric functions. Recall that trigonometric functions are not one-to-one unless the domains are restricted.

The following integration formulas yield inverse trigonometric functions:

Media: Watch these [video1](https://youtu.be/oeFkknJo31M), [video 2](https://youtu.be/Yz6mlH4VCUA), and [video3](https://youtu.be/8exEzx3ujhg) examples on integrals involving inverse trig functions.

Examples

1. Evaluate the definite integral .
2. Evaluate the integral .
3. Evaluate the definite integral .
4. Find an antiderivative of .
5. Find an antiderivative of .
6. Evaluate the definite integral .