**INTEGRATION BY PARTS**

In integration by parts, you can use the acronym “ILATE” to help you remember which function to integrate first. Here’s how it works.

I – Inverse trigonometric functions (arcsin, arccos etc.)

L – Logarithmic functions (ln, log)

A – Algebraic functions (polynomials, radicals)

T - Trigonometric functions (sin, cos, tan)

E – Exponential functions ()

1. ,

2. ,

3.

4.

5.

6.

7.

8.

9.

10.