

You will need to know some basic things from calculus:

- Differentiation and integration rules for elementary functions (such as  $u^n$ ,  $\sin u$ ,  $\cos u$ ,  $e^u$ ,  $\ln u$ ).
- Product rule.
- Chain rule.
- Substitution in integrals.
- Integration by parts.

You can review these topics in any standard calculus text.

You can also read about them here:

[Review of single-variable differentiation](#).

[Review of single-variable integration](#).

You can try the practice exercises to test your knowledge.