

Integration – Basics



2016 Q7 (b) (ii) □

Integration to find average height of a ball over a period of time.

2014 Sample Q6 (b) □

Integration of Natural Log (not on course but question is scaffolded).

As you can see there is very little practice of Integration in the Papers and so for a very good bank of questions I have included the Old Course Integration from 2000 to 2012.

A couple of questions may seem like they are not on the syllabus but as you can see from 2014 Sample Paper Q6, questions can be scaffolded to enable them to be solved. As such I include them here to avoid surprises!

For example 2012 Q8 (b) we can use a Trigonometric Identity to transform the Integral into one that can be solved using Leaving Cert methods.

Old Course Questions

2012 Q8 (a)

Find

$$\int (1 + \cos 2x + e^{3x}) dx$$

2012 Q8 (b) (ii)

Find

Evaluate $\int_0^{\frac{\pi}{8}} \sin^2 2x dx$