

**Example 24**

Show that, if  $I_n = \int_0^1 x^n \sqrt{1-x} \, dx$ , then  $I_n = \frac{2n}{2n+3} I_{n-1}$ ,  $n \geq 1$ .

$$\begin{aligned} \text{Let } u &= x^n & \frac{dv}{dx} &= \sqrt{1-x} \\ \text{So } \frac{du}{dx} &= nx^{n-1} & v &= -\frac{2}{3}(1-x)^{\frac{3}{2}} \end{aligned}$$

Then integrating by parts

$$\begin{aligned} I_n &= \left[ -\frac{2}{3} x^n (1-x)^{\frac{3}{2}} \right]_0^1 + \int_0^1 \frac{2}{3} nx^{n-1} (1-x)^{\frac{3}{2}} dx \\ &= [0 - 0] + \int_0^1 \frac{2}{3} nx^{n-1} (1-x)^{\frac{3}{2}} dx \end{aligned}$$

Using the identity  $(1-x)^{\frac{3}{2}} = (1-x)\sqrt{1-x}$

If  $n \geq 1$ ,  $[ \dots ]_0^1 = 0$ .

You need to write this so that the term  $\sqrt{1-x}$  appears.

Integr

$$\begin{aligned} I_n &= \frac{2n}{3} \int_0^1 x^{n-1} (1-x) \sqrt{1-x} \, dx \\ &= \frac{2n}{3} \int_0^1 x^{n-1} \sqrt{1-x} \, dx - \frac{2n}{3} \int_0^1 x^n \sqrt{1-x} \, dx \\ &= \frac{2n}{3} I_{n-1} - \frac{2n}{3} I_n \end{aligned}$$

$$\text{So } (3 + 2n)I_n = 2nI_{n-1}$$

$$I_n = \frac{2n}{2n+3} I_{n-1}$$

Collecting up terms in  $I_n$

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