

10 Core: Integration

These are worked solutions to the colour-coded problem-solving questions from the exercises in the Student's Book. This excludes the drill questions.

Exercise 10A

23

$$\begin{aligned}\int \frac{4}{3t^2} - \frac{2}{t^3} dt &= \int \frac{4}{3} t^{-2} - 2t^{-3} dt \\ &= -\frac{4}{3} t^{-1} + \frac{2}{4} t^{-2} + c \\ &= -\frac{4}{3} t^{-1} + \frac{1}{2} t^{-2} + c\end{aligned}$$

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$$\begin{aligned}y &= \int 3x^2 - 4 dx \\ &= \frac{3x^3}{3} - \frac{4x}{1} + c \\ &= x^3 - 4x + c\end{aligned}$$

When $x = 1$, $y = 4$ so,

$$4 = 1 - 4 + c$$

So, $c = 7$ and then $y = x^3 - 4x + 7$

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$$\begin{aligned}y &= \int 4x^{-2} - 3x^2 dx \\ &= \frac{4x^{-1}}{-1} - \frac{3x^3}{3} + c \\ &= -\frac{4}{x} - x^3 + c\end{aligned}$$

When $x = 2$, $y = 0$ so,

$$0 = -\frac{4}{2} - 2^3 + c$$

So, $c = 10$ and then $y = -\frac{4}{x} - x^3 + 10$

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$$\begin{aligned}\int (3x - 2)(x^2 + 1) dx &= \int 3x^3 - 2x^2 + 3x - 2 dx \\ &= \frac{3x^4}{4} - \frac{2x^3}{3} + \frac{3x^2}{2} - 2x + c\end{aligned}$$

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