

Motion notes: a PDF to LaTeX demo

Self-authored public sample. Numbers are illustrative teaching data.

1. Check the formula and units

For uniform motion, average speed equals distance divided by time:

$$v = \frac{s}{t}$$

Here v is speed in m/s, s is distance in m, and t is time in s. Keep the variable explanations separate from the displayed fraction.

2. Check every table cell

The three observations use the same speed. Preserve decimals and units.

Group	Distance s (m)	Time t (s)	Speed v (m/s)
A	6.00	2.00	3.00
B	12.00	4.00	3.00
C	15.00	5.00	3.00

3. Check an independent exact integral

This separate mathematics example tests the limits, exponent and fraction:

$$\int_0^1 x^2 \, dx = \frac{1}{3}$$

Compiling a formula does not prove that its mathematical content matches the original PDF. Check symbols before using the result.

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4. Keep the chart and its caption

The plotted points correspond to the three rows on page 1. The line shows the same constant speed, $s = 3t$.

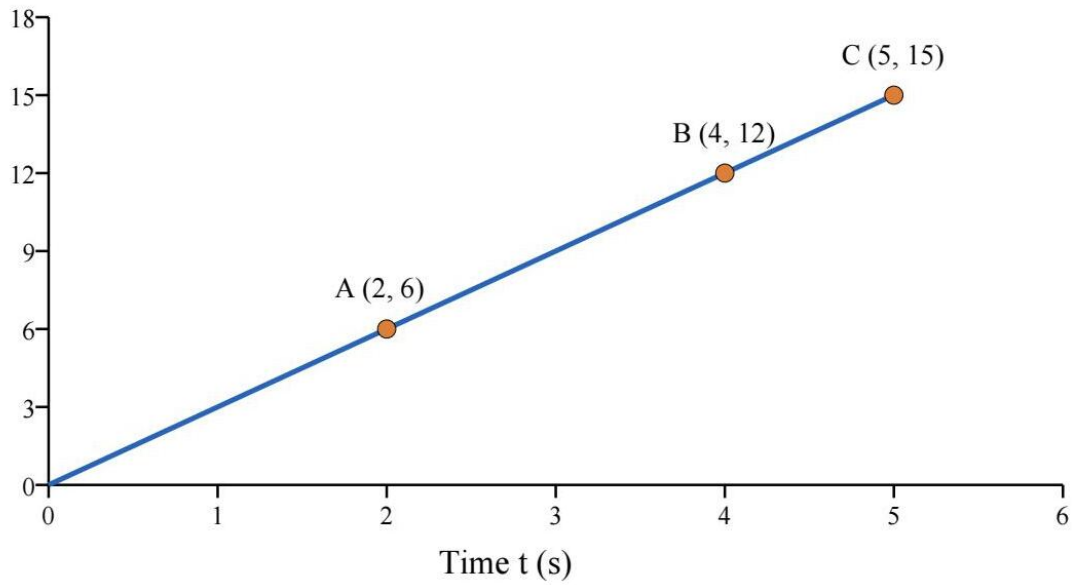


Figure 1: Distance and time for observations A, B and C.

5. Review the exported project

1. Confirm all three table rows, the integral and the speed fraction.
2. Keep each exported image with the TeX source that references it.
3. Compile the complete project, then compare the resulting PDF with these source pages. Page breaks and typography may change.

This document was authored for a conversion test. The exported TeX is a new content representation, not a promise to recover an author's original macros, template or editable chart.

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