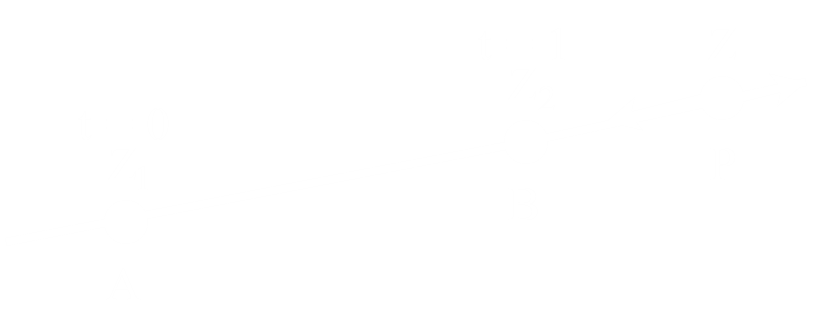
**Parametric Equation of Line Joining Two Points**

We know that . If we have two further equations, and , then we can write

This is called the **parametric equation**.

Say we have a line for with **two points**, and . At , and at , . is currently at some point on the line.



Thus, we have **two equations** for two segments, and .

Since the two segments are **co-planar**, .

This is the **parametric equation** of a **line joining two points**.

Here, .