Position vectors

A vector used to represent a position is unsurprisingly known as a **position vector**.

A position can be thought of as a translation from the origin.

The position vector of a point is the vector, where is the origin. is usually written as .

Examples

1. The points and have coordinates and respectively.

Find, in terms of and :

1. The position vector of
2. The position vector of
3. The vector

2. and . Find:

a) The position vector of .

b) The exact value of in simplified surd form.

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