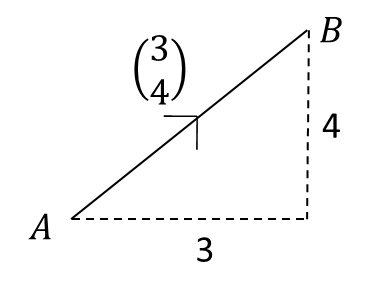
Magnitude of a vector

The magnitude of a vector is its length.

If

Examples:



Direction of a Vector

The direction of a vector can be found using basic trigonometry.

Examples

1. Find the angle that vector makes with the positive x axis.

2. Find the angle that vector makes with ***j***.

Unit vector

A unit vector is a vector whose magnitude is 1.

If is a vector, then the unit vector in the same direction is

Example:

Find a unit vector in the direction of

**Test Your Understanding:** Convert the following vectors to unit vectors.

Exercise 11C Pg 240/241

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