Vectors

Vectors have a magnitude and direction

The i direction is along the positive x axis,
j direction is along the positive y axis

$$R = R_0 + vt$$

The position of a vector is the starting
point + velocity times time

We use Pythagoras to find:
The length of a line
The magnitude of a force
The speed

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the direction of $\overrightarrow{AB}$ is the position of B
minus the position of A