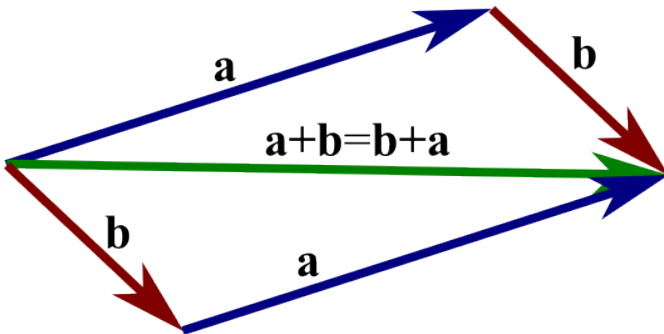


22 - Vector Geometry

Vectors with same magnitude + direction are equal

If vectors have same magnitude but opposite direction: -

$$\begin{array}{ccc} \rightarrow & & \rightarrow \\ AB = \mathbf{a} & & BA = -\mathbf{a} \end{array}$$



Different sized vectors with same direction = scalar multiples

Parallel vectors = same direction

If points are collinear, they are on the same line

To be collinear — they must be multiples of the vector + common point

same direction = shown in vector

e.g. ABC will be collinear if $AB = kBC$

- they have a common point, B, are parallel and are multiples

