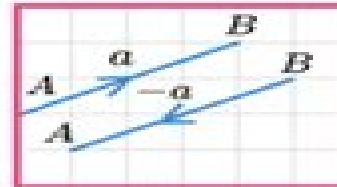


Vectors are the same if they have the same direction and magnitude.



A negative vector has the same magnitude but is in the opposite direction.



A vector can be multiplied by a scalar to make it shorter or longer or reverse the direction.

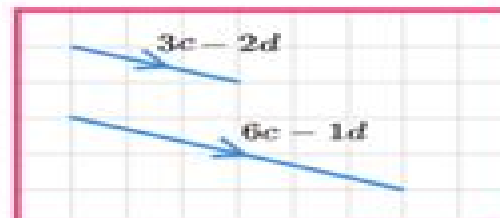


Vectors can be added together to create a pathway from one point to another.



$$\overline{AC} = a + b$$

Two vectors are parallel if one is a multiple of the other.



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