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a vector is something with both magnitude and direction on diagrams they are denoted by an arrow where the length tells us the magnitude and the arrow tells us direction you will need to add and subtract vectors you will also need to multiply vectors and understand scalar multiples of vectors

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a vector is a type of number that has both a size and a direction here we only deal with two dimensional vectors although it is possible to have vectors with any number of dimensions representing vectors

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three vectors are defined as follows $\vec{rs} = 3\vec{i} + 2\vec{j} + k$ $\vec{st} = 3\vec{j} + 5\vec{k}$ $\vec{pt} = 2\vec{i} + 3\vec{k}$ a find \vec{rt} b hence or otherwise find \vec{rp} show answer example 2 non calculator pqrs is a trapezium with $\vec{rq} = 2\vec{sp}$ \vec{pq} and \vec{rq} represent vectors \vec{u} and \vec{v} respectively

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