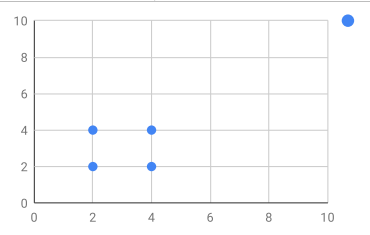
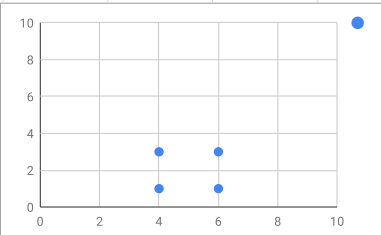
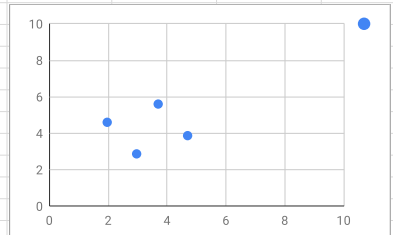


Question 1		Question 2		Original		Translate		Rotate		Scale	
vector	A mathematical object, a size, a magnitude and a direction		x	y	2	-1	30 degree	ccw	Right * 1.5	Top * 1.5	
basis vector	A set of elements in a vector space V is called a set of basis vectors if the vectors are linearly independent and every vector in the vector space is a linear combination of this set.		2	2	4	1	2.964101615	2.866025404	2.964101615	2.866025404	
orthonormal basis	A subset of a vector space, with the inner product, is called orthonormal if when. That is, the vectors are mutually perpendicular. Moreover, they are all required to have length one: .		2	4	4	3	1.964101615	4.598076211	1.214101615	5.897114317	
vector space	A vector space (also called a linear space) is a collection of objects called vectors, which may be added together and multiplied ("scaled") by numbers, called scalars.		4	2	6	1	4.696152423	3.866025404	7.294228634	5.366025404	
frame	A frame of an inner product space is a generalization of a basis of a vector space to sets that may be linearly dependent.		4	4	6	3	3.696152423	5.598076211	5.544228634	8.397114317	
affine transformation	A linear mapping method that preserves points, straight lines, and planes.										
Original		Translate		Rotate		Scale	