

Conceptual Physics

Vector Addition Worksheet III

Name: _____

Date: _____ Per _____

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On a separate piece of paper, or in the space below IF you can neatly fit your work, use the following individual vectors to GRAPHICALLY find the resultant vector in the first three problems. Remember, the resultant vector must have both magnitude and direction. Include a scale, for example 1 km = 2 mm. Use Ruler and Protractor !!

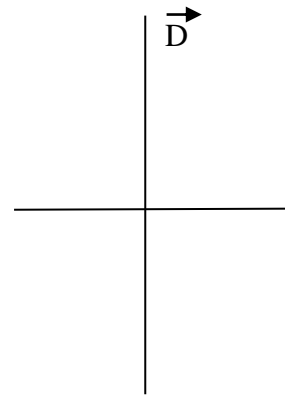
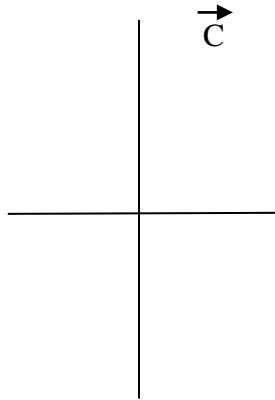
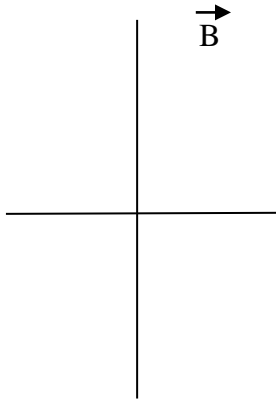
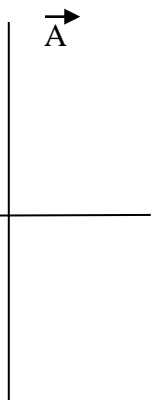
First things first, draw each of the below vectors on a separate x-y axis below. 8pts.

$$\vec{A} = 35 \text{ km at } 25^\circ \text{ N of E}$$

$$\vec{B} = 15 \text{ km at } 10^\circ \text{ E of N}$$

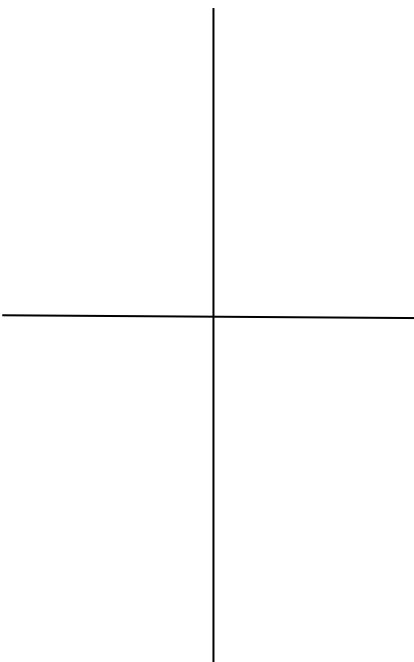
$$\vec{C} = 20 \text{ km at } 43^\circ \text{ S of E}$$

$$\vec{D} = 40 \text{ km at } 28^\circ \text{ W of N}$$

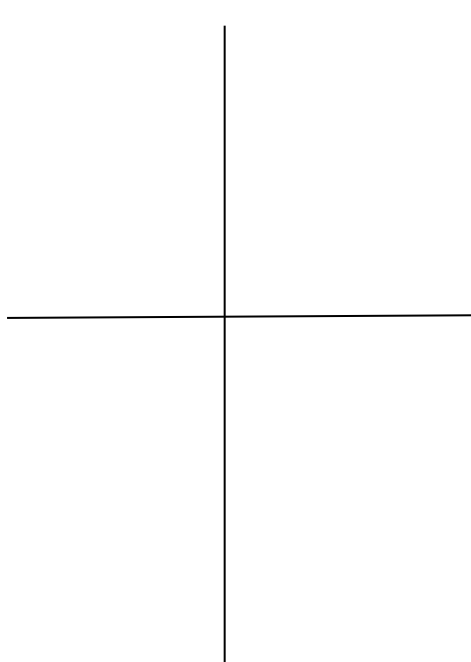


Highly recommended that you obtain 3 pieces of graph paper and put one onto each piece of graph paper then staple this to this sheet.

1. $\vec{A} + \vec{B} = ?$ (10pts)



2. $\vec{B} + \vec{C} = ?$ (10pts)



3. $\vec{C} + \vec{D} = ?$ (10pts)

