

Vector Addition Worksheet

Directions: Solve the problems below by using the component method of vector addition to find the resultant. Make sure that the resultant has both magnitude and direction because it is a vector quantity. Show all work by setting up the chart and showing the equations for each problem and circle your final answer. Make sure to include correct units.

1. Solve for the resultant displacement of the two vectors:

A = 2.3 km @ 45 degrees

$$\cos \theta = \frac{\text{adjacent}}{\text{hypotenuse}}$$

$$\sin \theta = \frac{\text{opposite}}{\text{hypotenuse}}$$

$$\text{adj} = \text{hyp} \cos \theta$$

$$\text{opp} = \text{hyp} \sin \theta$$

$$= 2.3 \cos 45$$

$$= 2.3 \sin 45$$

$$= 1.63 \text{ km}$$

$$= 1.63 \text{ km}$$

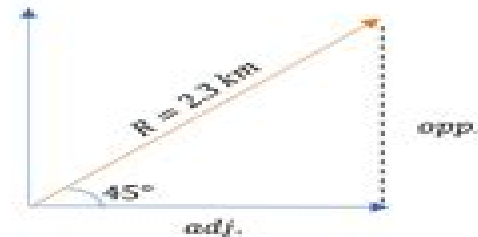
$$R = \sqrt{1.63^2 + 1.63^2}$$

$$= 2.3 \text{ km}$$

$$\tan \theta = \frac{1.63}{1.63} = 1$$

$$\theta = \tan^{-1}(1) = 45^\circ$$

Final Answer: 2.3 km at 45 degrees



B = 4.8 km @ 90 degrees

$$\cos \theta = \frac{\text{adjacent}}{\text{hypotenuse}}$$

$$\sin \theta = \frac{\text{opposite}}{\text{hypotenuse}}$$

$$\text{adj} = \text{hyp} \cos \theta$$

$$\text{opp} = \text{hyp} \sin \theta$$

$$= 4.8 \cos 90$$

$$= 4.8 \sin 90$$

$$= 0 \text{ km}$$

$$= 4.8 \text{ km}$$

$$R = \sqrt{0^2 + 4.8^2}$$

$$= 4.8 \text{ km}$$

$$\tan \theta = \frac{4.8}{0} = 0$$

$$\theta = \tan^{-1}(0) = 0^\circ$$

Final Answer: 4.8 km at 0 degree



Vector Addition Word Problems 1 Answers

N Noddings



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