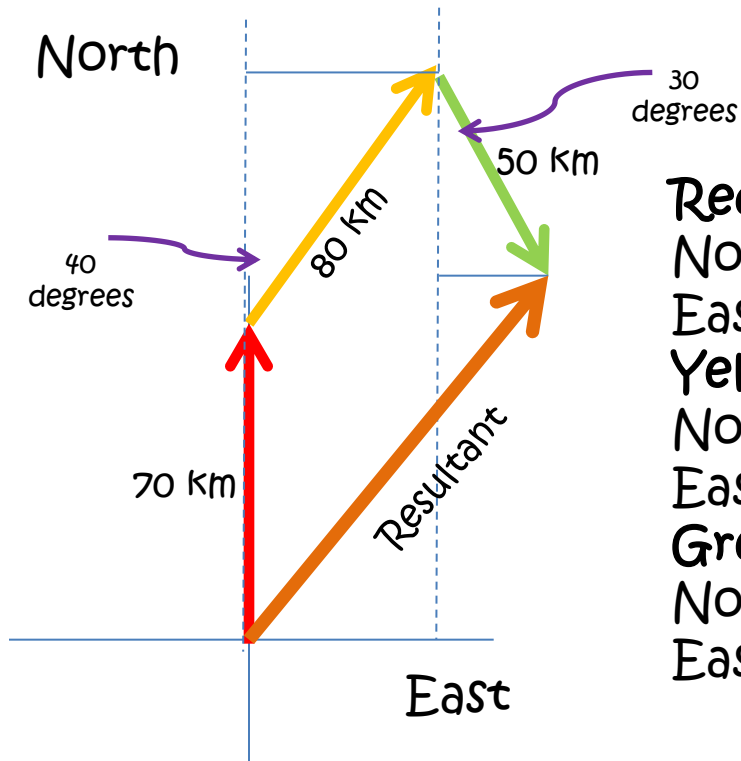


Find the resultant graphically.

A police car drives 70 km due North. Then, it drives 80 km at an angle of 40 degrees clockwise from North. Finally, it drives 50 kilometers at an angle of 30 degrees counterclockwise from South.

# Solution... Almost

A police car drives 70 km due North. Then, it drives 80 km at an angle of 40 degrees clockwise from North. Finally, it drives 50 kilometers at an angle of 30 degrees counterClockwise from South.



## Red Vector:

North-Component = +70 km

East-Component = 0 km

## Yellow Vector:

North-Component =  $(80 \text{ km}) \times \cos(40 \text{ degrees}) =$

East-Component =  $(80 \text{ km}) \times \sin(40 \text{ degrees}) =$

## Green Vector:

North-Component =  $(50 \text{ km}) \times \cos(30 \text{ degrees}) =$

East-Component =  $(50 \text{ km}) \times \sin(30 \text{ degrees}) =$