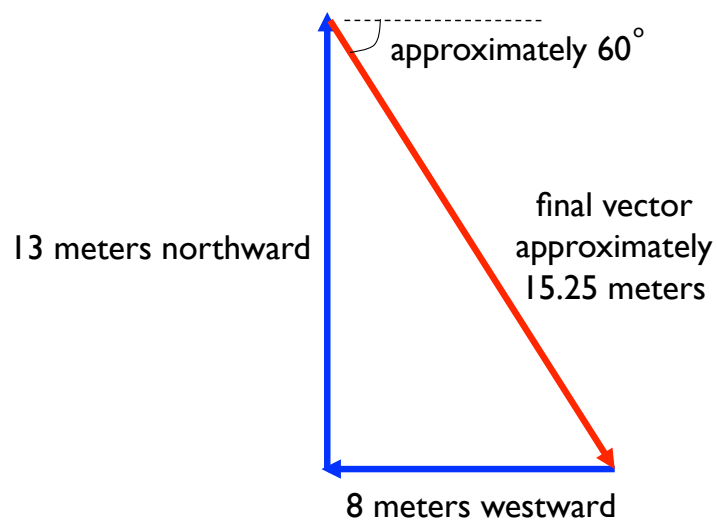# Problem 3.9

A man moves 8 m westward, then 13 meters northward. How many meters and at what angle must he move to get back to his starting point? Use graphical vector methods to determine this.

Scale the vectors first.
Then use a centimeter stick to determine
magnitude and protractor
to determine angle:

approximately 60°

13 meters northward

final vector
approximately
15.25 meters

8 meters westward