

5. A cannonball is launched with a speed of 170 m/s at 40° above the horizontal

6. The momentum of an ocean liner is 3.75×10^9 N-s at 30° North of East

II. For the next six problems, you are given two components of a vector. Calculate (after estimating) and draw the resultant of the vectors. Include direction.

1. A man walks 45 meters East, then 23 meters South. What is his displacement?

2. A small plane is seen moving at 90 m/s East while drifting North at a speed of 30 m/s due to high winds. What is its overall velocity?

