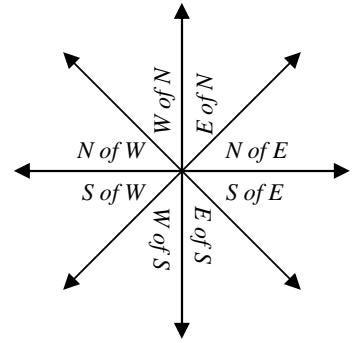
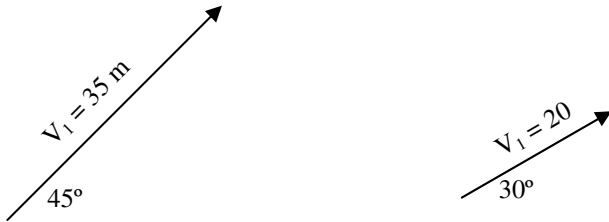


A-Day: due Wed., 9/27 (Assigned 9/25)
B-Day: due Thurs., 9/28 (Assigned 9/26)

Two Dimensional Motion 5



1. A person walks 40 meters south, 10 meters west, 5 meters north, then 2 meters east. Find the magnitude and direction of their final position in relation to their starting point.
2. How fast must a truck travel to stay beneath a plane that is moving 105 km/h at an angle of 25° to the ground.
3. A hockey puck slides 3 m/s on the ice rink for 4 seconds. Find the vertical component of the hockey puck's velocity.
4. Add these two vectors together: $V_1 = 35$ m at 45° N of E; $V_2 = 20$ m at 30° N of E.



5. Add these two vectors together: $V_1 = 5$ m/s at 50° N of E. $V_2 = 20$ m/s at 70° S of E. (Note the directions help above.)
6. A car drives west of north at 60° . The car is going 60 mph for 1.2 hours. Find how far west it went.
7. Give one example of the skeletal system protecting a major organ.
8. Without enough salt in your body electricity cannot flow properly, slowing down thinking and response time. Which body system is impaired due to a lack of salt?