1. A gravitational force on a 30 pound N box on a 35 degree incline split into the component that presses into the hill and the component down the hill.
2. A plane moving 80 m/sec is headed 60 degrees south of east in a wind flowing 45 degrees northwest at 20 m/sec. Split the planes velocities into 2 velocities, one south and the other east. Add the two motions.
3. Two oxen are pulling a plow. One produces a force of 150 pounds at an angle of 30 degrees and the other produces force of 200 pound at an Angle of 20 degrees. What is the net force on the plow?
4.  A box slides sideways off a shelf at 4 m/sec. After 2 sec, how fast is the box moving and in which direction?

