## Answer on Question \#50131, Physics, Mechanics | Kinematics | Dynamics

A car was moving due to north with a velocity of 40 km per hour. In which direction and with what speed the car will be moving, as seen from another car moving towards east with a speed of 30 km per hour?

## Solution:

Relative motion from another car:


Answer: speed of car will be $50 \mathrm{~km} / \mathrm{h}$ in a direction 53.13 degree north of west.

