

Answer on Question 39154, Physics, Mechanics, Kinematics, Dynamics

To find the length of the sum of two vectors (15 and 4 m/s) we will use Pifagor theorem, as they are perpendicular to each other. Hence, the magnitude of velocity is:

$$v = \sqrt{15^2 + 4^2} \approx 15.5 \text{ m/s}$$