Answer on question #81092, Physics / Mechanics
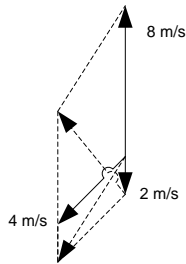
A small boat is travelling with a speed of 8km/h but there is current running south at 2km/h and wind is blowing the boat south-west at 4km/h find the resultant velocity

Solution:

The sum of the vectors

$$-2j + 8j - 2.83 - 2.83j = 3.17j - 2.83 = 4.25 \cdot e^{131.76j}$$

The resultant velocity 4.25 m/s

Answer: The resultant velocity 4.25 m/s