Answer on Question #63158, Physics / Mechanics | Relativity
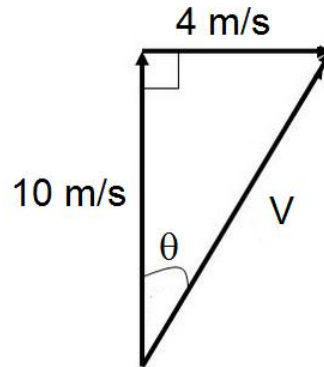
A bird is flying at 10 ms^{-1} forwards. At the same time a side wind blows it at 4 m s^{-1} to the right. Calculate the resultant velocity of the bird.

Solution:

$$V = \sqrt{10^2 + 4^2} = 10.77 \text{ m/s} \approx 10.8 \text{ m/s}$$

Answer: 10.8 m/s