Answer on Question #52847 – Math – Trigonometry

If the wind speed is 60 mph and the velocity due to the thrust is 500 mph show that the resultant velocity R is

a) at an angle of 6.84 degrees to the thrust of the engines and

b) is about 504 mph

Show all working.



a)
$$\alpha = \arctan \frac{60}{500} = \arctan(0.12) \approx 6.84^{\circ}$$

b) $R = \sqrt{500^2 + 60^2} = \sqrt{253600} \approx 504 \ mph.$

www.AssignmentExpert.com