Answer on Question 64311, Physics, Other

Question:

An aircraft carrier made a trip to Guam and back. The trip there took three hours and the trip back took four hours. It averaged $6\ km/h$ in the return trip. Find the average speed of the trip there.

Solution:

Let's first find the distance from the starting point to Guam:

$$s = vt = 6\ \frac{km}{h} \cdot 4\ h = 24\ km.$$

Then, we can find the average speed of the trip to Guam:

$$v = \frac{s}{t} = \frac{24\ km}{3\ h} = 8\ \frac{km}{h}.$$

Answer:

$v = 8\ \frac{km}{h}$.