

Answer on Question #58498, Physics / Mechanics | Relativity |

An airplane is travelling at a distance of $5.80 \cdot 10^3 \text{ km}$. If the cruising speed of the airplane is 350.0 km/h . How much time will it take for the airplane to make the round trip on a calm day.

Solution:

The time of the round trip is

$$t = \frac{2d}{v} = \frac{2 \cdot (5800 \text{ km})}{(350 \text{ km/h})} = \frac{232}{7} \text{ hours} = 33\frac{1}{7} \text{ hours} = 33.14 \text{ hours}$$

Answer: $33\frac{1}{7} \text{ hours} = 33.14 \text{ hours}$