

A car consumes an average of 5.6 litres of gasoline per hundred kilometres. An electric version of this car consumes 17 kWh of electricity per 100 km. If the price per litre of gasoline is 1.9 euros and the price per kWh is 0.05 euros, how much less or more does the electric car cost per 100 km in terms of energy consumption in percents?

My solution;

1. Cost of gasoline car per 100 km

$$5.6 \times 1.9 = 10.64$$

2. cost of electric car per 100 km:

$$17 \text{ kWh} \times 0.05 \text{ kWh} = 0.85$$

$$3. 10.64 - 0.85 = 9.79$$

percentage difference: $\frac{9.79}{10.64} \times 100 \approx 92\%$

Homework Assignment 1

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