

Optional Discussion

Working independently, identify from the list provided, the shared maintenance duties for both Hybrid and VOLT . Support your answer

Brake maintenance _____

Battery Maintenance _____

“Safety Test” _____

Wiper Care _____

Head/tail Lights _____

Indicator Lights _____

Wheel Alignment _____

Tire rotation _____

Oil changes _____

SOLVE THE FOLLOWING PROBLEMS

1. **IF**, the average number of kilometers a driver does in 1 year is 12,000kms (8,000kms EV power and 4,000kms on gasoline.

Tires should be rotated twice in the year (spring/winter) \$49.99/yr.

A wheel alignment is completed once a year \$69.75

Depreciation is 20% year 1, 18% year 2, 15% year 3 (\$40,280)

What would it cost a driver to operate a VOLT for a 3 year period?

(use the chart below)

	1 st year	3 rd year	
KMS: (8,000 EV)			Depreciation 1 st year
KMS : 4,000 Gas			2 nd year
Tire Rotation			3 rd year
Alignment			

TAKE IT FURTHER

A Hybrid car has optimal fuel consumption rating of 8 L/100kms when driven at 100 km/hr. For each kilometer per hour greater than that speed, the fuel consumption Rating increases by 0.5%.

Suppose you drive from Toronto to Kingston and back, for a total distance of 500km.

Use the current price of fuel in the K/W area to determine the cost of fuel for the same drive, when the vehicle is driven at these speeds.

Show your calculations for each speed indicated

a) 100km/hr

b) 120km/hr

c) 140km/hr