

What is the largest possible value of  $W/Q_{\text{in}}$  for a car engine? ( $T_H \approx 600$  K,  $T_C \approx 300$  K)  
Concepts to keep in mind:

- First Law of Thermodynamics
- Second Law of Thermodynamics
- $\Delta S = Q/T$  if heat flow doesn't change  $T$

Missing

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