Max Shi  
Professor de Rosa  
E 234  
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I pledge my honor that I have abided by the Stevens Honor System.  
Partner: Ashley McDermott

Homework 4

1. Isothermal process:
2. Polytropic process
3. Energy equation
4. Specific heats – constant volume
5. No because the value of cp increases as temperature increases, which means that more energy is required to heat the same amount of air the same temperature difference.
6. Polytropic process
7. Energy equation, spring loaded -> linear relationship