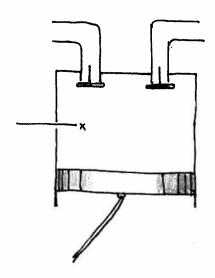
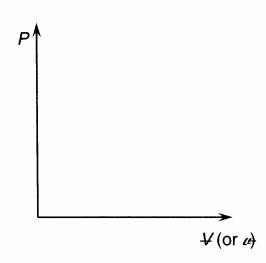
Consider the piston cylinder in your car. Let's consider what *really* happens as it is operating.





Let's analyze it! But first, some assumptions...



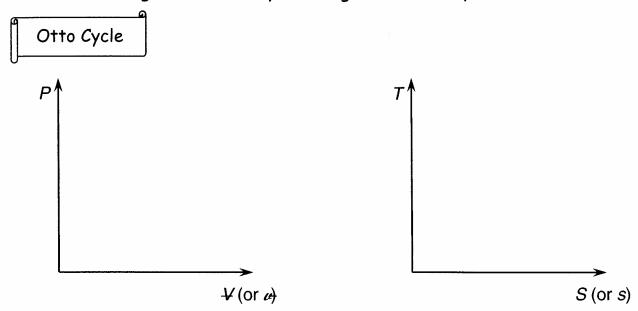
Air Standard Assumptions

- 1. Working fluid is _____
- 2. and it behaves as an _______
- 3. The system is ______. (We are ignoring intake and exhaust strokes.)
- 5. All processes are _______

Cold Air Standard Assumptions

Same as air standard assumptions with

Our best first guess at this cycle using these assumptions is the



Some other definitions:

$$r_c$$
 = / = _____

Cold air standard	Air standard