

3rd point results*Speed = 2500 rpm**Bmep = 4 bar**Pin = 1.9bar**Tin = 347K*

My hypotheses for the first point are presented in the following table:

Guess values		
<i>f (res. Gas)</i>	<i>0.05</i>	<i>-</i>
<i>lambda</i>	<i>2.542</i>	<i>-</i>
<i>R(1)</i>	<i>282.9</i>	<i>J/(kg*K)</i>
<i>P(1)/Pin</i>	<i>0.932</i>	<i>-</i>
<i>T(1)</i>	<i>476</i>	<i>K</i>
<i>P(IVC)/Pin</i>	<i>1.2365</i>	<i>-</i>
<i>T(IVC)</i>	<i>397.235</i>	<i>K</i>

The convergences of the original hypotheses are presented below in the four convergence criteria:

- error1 = 3.51 Pascal
- error2 = -0.03 K
- error3 = -0.258 J/(kg*K)
- error4 = -0.00066 bar

The results are presented below:

Results		
<i>dφ_{ZV}</i>	<i>15</i>	<i>degrees</i>
<i>η</i>	<i>26.8636%</i>	<i>-</i>
<i>ev</i>	<i>0.9073</i>	<i>-</i>
<i>bsfc</i>	<i>308.78</i>	<i>Gr/kWh</i>
<i>P</i>	<i>43.03</i>	<i>hp</i>
<i>imep</i>	<i>5.4</i>	<i>bar</i>

Also, the following diagrams are presented:











