

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

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

Guess values		
$f \text{ (res. Gas)}$	0.05	-
λ	2.542	-
$R(1)$	282.9	J/(kg*K)
$P(1)/P_{in}$	0.932	-
$T(1)$	476	K
$P(IVC)/P_{in}$	1.2365	-
$T(IVC)$	397.235	K

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		
$d\phi_{zv}$	15	degrees
η	26.8636%	-
ev	0.9073	-
$bsfc$	308.78	Gr/kWh
P	43.03	hp
$imep$	5.4	bar

Also, the following diagrams are presented:











