

# AVAGAEMINHA.COM.BR - GABARITO DE RESPOSTAS

Aula: Termodinâmica e Estudo dos gases.

Curso: TERMODINÂMICA

## Respostas

1.

C

2.

$$P_f/P_0 = 2$$

3.

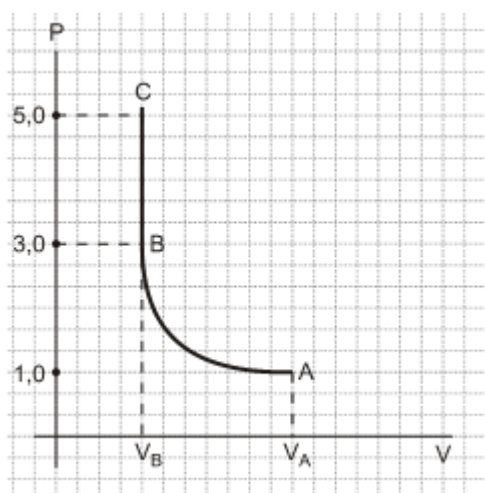
$$T/t_0 = 8$$

4.

D

5.

a) Observe o diagrama a seguir:



$$V_A/V_B = 3$$

b)  $T_C = 505K = 232^\circ C$

6.

D

7.

**Gabarito Oficial: D**

8.

a)  $F_{\text{gás}} = 83\text{N}$

b)  $h = 0,12\text{ m}$

c)  $\Delta h = 0,012$

9.

B

10.

a)  $p = 1,89 \times 10^8\text{ N/m}^2$

b)  $V = 0,1\text{m/s}$

11.

C

12.

C

13.

E

14.

a)  $V_1 = 50\text{ m}^3$ .

b)  $V_2 = 83,3\text{ m}^3$ . (O gás sofreu expansão)

c)  $W = 3,3 \times 10^6\text{ J}$ .

15.

D

16.

**B**

**17.**

**C**

**18.**

**C**

**19.**

$$01 + 02 + 04 + 08 + 16 = 31$$

**20.**

**V F F V V.**

**21.**

**D**

**22.**

**A**

**23.**

**D**

**24.**

**F V V V V**

**25.**

a)  $Q_{\text{água}} = 222 \text{ cal.}$

b)  $\Delta S_{\text{álcool}} > - 0,725$