

$$y = 12 - \frac{288}{15}$$

$$= \frac{180 - 288}{15}$$

$$= \frac{-108}{15} = -7.2 \text{ A}$$

Current in $R_1 = 7.2 \text{ A}$

$$\text{Current in } R_2 = \frac{x + y}{2} = \left(\frac{72 - 108}{15} \right) \frac{1}{2}$$

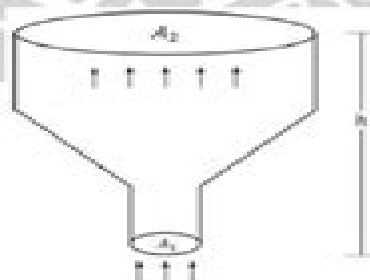
$$= \frac{1}{2} \left(\frac{36}{15} \right) = \frac{2.4}{2} \text{ A}$$

$$= 1.2 \text{ A}$$

Current in $R_3 = x = 4.8 \text{ A}$

$$\text{Current in } R_5 = \frac{1}{2} x = 2.4 \text{ A}$$

11. An ideal gas of density $\rho = 0.2 \text{ kg m}^{-3}$ enters a chimney of height h at the rate of $\alpha = 0.8 \text{ kg s}^{-1}$ from its lower end, and escapes through the upper end as shown in the figure. The cross-sectional area of the lower end is $A_1 = 0.1 \text{ m}^2$ and the upper end is $A_2 = 0.4 \text{ m}^2$. The pressure and the temperature of the gas at the lower end are 600 Pa and 300 K , respectively, while its temperature at the upper end is 150 K . The chimney is heat insulated so that the gas undergoes adiabatic expansion. Take $g = 10 \text{ ms}^{-2}$ and the ratio of specific heats of the gas $\gamma = 2$. Ignore atmospheric pressure.



Which of the following statement(s) is(are) correct?

- (A) The pressure of the gas at the upper end of the chimney is 300 Pa .
- (B) The velocity of the gas at the lower end of the chimney is 40 ms^{-1} and at the upper end is 20 ms^{-1} .
- (C) The height of the chimney is 590 m .
- (D) The density of the gas at the upper end is 0.05 kg m^{-3} .

Answer (B, C)

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Daniela Niemeyer



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