

$$y = 12 - \frac{288}{15}$$
$$= \frac{180 - 288}{15}$$
$$= \frac{-108}{15} = -7.2 \text{ A}$$

Current in Rt = 7.2 A

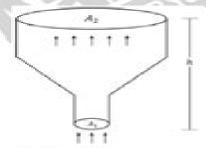
Current in
$$R_2 = \frac{x+y}{2} = \left(\frac{72}{15} - \frac{108}{15}\right)\frac{1}{2}$$

= $\frac{1}{2}\left(\frac{36}{15}\right) = \frac{2.4}{2}$ A
= 1.2 A

Current in $R_3 = x = 4.8$ A

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

11. An ideal gas of density p = 0.2 kg m⁻³ enters a chimney of height h at the rate of α = 0.8 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 A₁ = 0.1 m² and the upper end is A₂ = 0.4 m². 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 ms⁻² and the ratio of specific heats of the gas γ = 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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web astm a572 a high strength low alloy steel plate that is utilized in a variety of structural applications this specification is produced in grades 42 50 55 60 65 the grades representing the yield strength plates that are 4 and thicker are made to a 42 ksi yield although material can be modified to reach the 50 ksi min yield

mechanical properties of astm a572 grades 50 and 60 steels at - Nov 23 2022

web this study presents a detailed experimental study on the mechanical properties of astm a572 grade 50 gr 50 and grade 60 gr 60 steels at high temperatures in addition extensive literature data on the yield strength tensile strength and elastic modulus of mild steel ms high strength steel hss and very high strength steel vhss