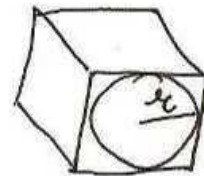


$$\frac{V_{cy}}{V_{co}} = \frac{\pi r^2 h}{\frac{1}{3} \pi r^2 h}$$

$$\Rightarrow V_{cy} = 3 V_{co} \text{ True}$$

⑨



$$e = 2r$$

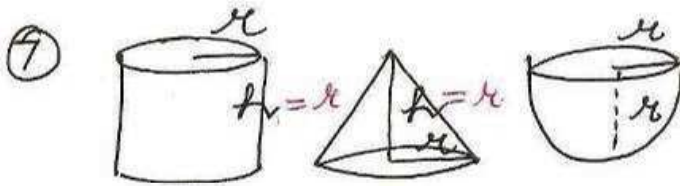
$$\frac{V_c}{V_s} = \frac{e^3}{\frac{4}{3} \pi r^3}$$

$$= \frac{(2r)^3}{\frac{4}{3} \pi r^3}$$

$$= \frac{8r^3}{\frac{4}{3} \pi r^3}$$

$$= \frac{8}{\frac{4}{3} \pi} = \frac{6}{\pi}$$

True



vol cone : vol hs : vol cyl

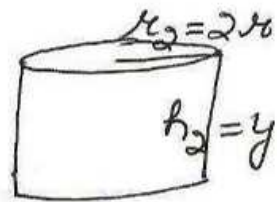
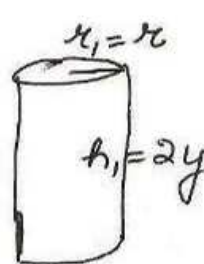
$$\frac{1}{3} \pi r^2 h : \frac{2}{3} \pi r^3 : \pi r^2 h$$

$$= \frac{1}{3} r^2 \times r : \frac{2}{3} r^3 : r^2 \times r$$

$$= \frac{1}{3} r^3 : \frac{2}{3} r^3 : r^3$$

$$= 1 : 2 : 3$$

⑩



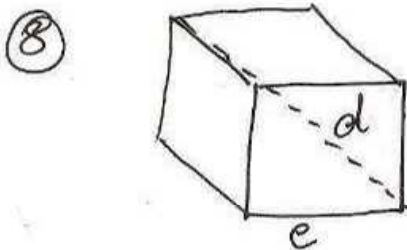
$$\frac{V_1}{V_2} = \frac{\pi r_1^2 h_1}{\pi r_2^2 h_2}$$

$$= \frac{r \times r \times 2y}{2r \times 2r \times y}$$

$$= \frac{1}{2}$$

$$\Rightarrow V_2 = 2 V_1$$

True



$$\text{diag of cube} = \sqrt{3} e$$

$$6\sqrt{3} = \sqrt{3} e$$

$$\Rightarrow e = 6 \text{ False}$$