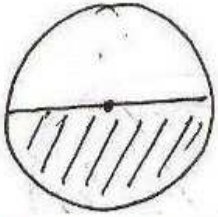


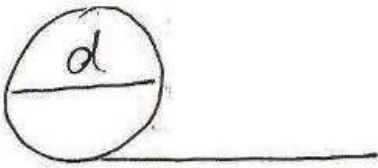
④ False



In figure area of sector = area of segment

True for Minor Seg.

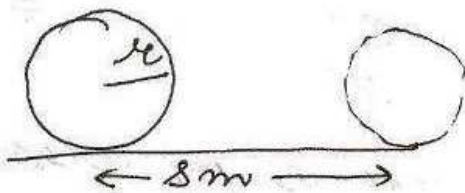
⑤



distance trav. by wheel in 1 rev.
= circumference
= πd

\therefore False

⑥



no. of revolutions
= $\frac{\text{distance covered}}{\text{circumference}}$

$$= \frac{8}{2\pi r}$$

\therefore True

ex 11.2, exemplar x

⑦ False

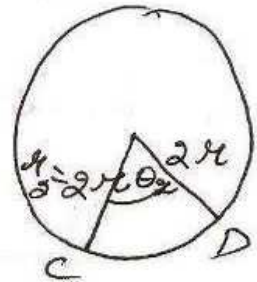
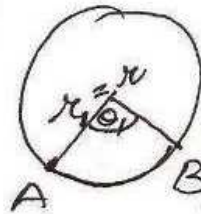
$$\frac{\text{Area of } \odot}{\text{circum of } \odot}$$

$$= \frac{\pi r^2}{2\pi r}$$

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

\therefore area of $\odot \neq$ circum of \odot
if radius ≤ 2

⑧



length of AB = len of CD

$$2\pi r_1 \frac{\theta_1}{360} = 2\pi r_2 \frac{\theta_2}{360}$$

$$r \theta_1 = 2r \theta_2$$

$$\Rightarrow \theta_1 = 2\theta_2$$

\therefore True