1 (a) volume

(b) Surface area

(c) volume

2. cylinder B has greater volume as its radius is twice radius of cyl. A and half its height.

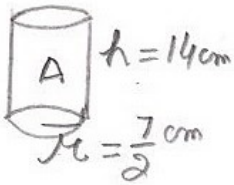
Formula for volume is $\pi r^2 \times h$

$\therefore$ Its volume is twice volume of cyl. A

volume of cylinder A $= \pi r^2 h$

$= \frac{22}{7} \times \frac{7}{2} \times \frac{7}{2} \times 14$

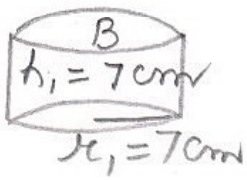
$= 539 \text{ cm}^3$



volume of cylinder B $= \pi r_1^2 h_1$

$= \frac{22}{7} \times 7 \times 7 \times 7$

$= 1078 \text{ cm}^3$



$\therefore$ vol. cly. B > volume of cylinder A

Surface area of cyl A $= 2\pi rh$

$= 2 \times \frac{22}{7} \times \frac{7}{2} \times 14$

$= 308 \text{ cm}^2$

Surface area of cylinder B $= 2\pi rh$

$= 2 \times \frac{22}{7} \times 7 \times 7$

$= 308 \text{ cm}^2$

$\therefore$ S.A. Cyl A = S.A. cyl. B