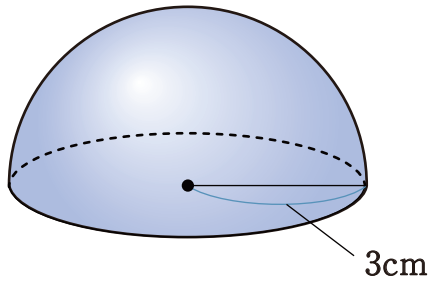
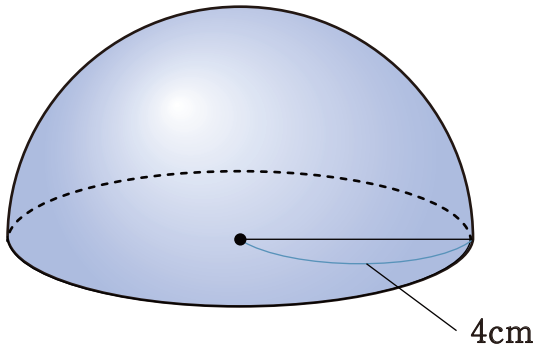


1 次の半球の表面積を求めなさい。

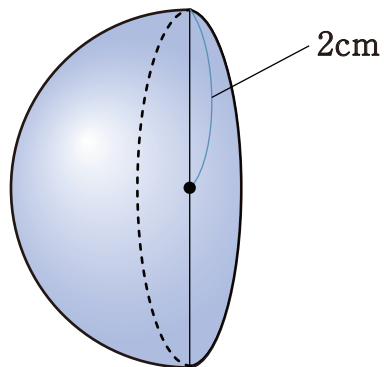
①



②

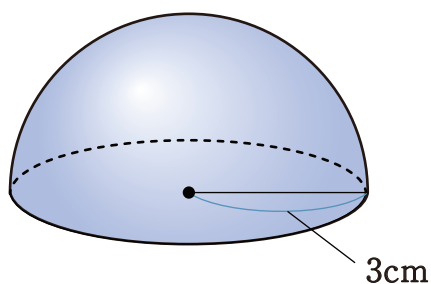


③



1 次の半球の表面積を求めなさい。

①



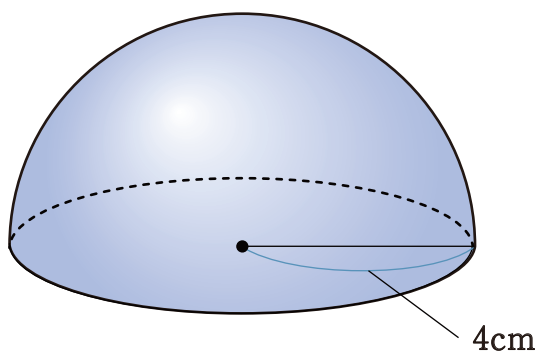
$$27 \pi \text{ cm}^2$$

球の表面積の半分は
 $4 \pi \times 3^2 \times \frac{1}{2} = 18 \pi \text{ cm}^2$

球の断面の面積は
 $\pi \times 3^2 = 9 \pi \text{ cm}^2$

$$18 \pi + 9 \pi = 27 \pi \text{ cm}^2$$

②



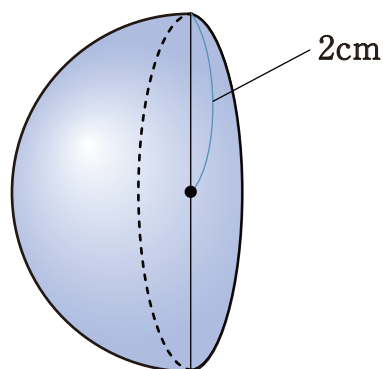
$$48 \pi \text{ cm}^2$$

球の表面積の半分は
 $4 \pi \times 4^2 \times \frac{1}{2} = 32 \pi \text{ cm}^2$

球の断面の面積は
 $\pi \times 4^2 = 16 \pi \text{ cm}^2$

$$32 \pi + 16 \pi = 48 \pi \text{ cm}^2$$

③



$$12 \pi \text{ cm}^2$$

球の表面積の半分は
 $4 \pi \times 2^2 \times \frac{1}{2} = 8 \pi \text{ cm}^2$

球の断面の面積は
 $\pi \times 2^2 = 4 \pi \text{ cm}^2$

$$8 \pi + 4 \pi = 12 \pi \text{ cm}^2$$