

解答

1. 立体の体積と表面積（回転） 3

$$(1) V = \frac{490}{3}\pi\text{cm}^3$$

$$(2) V = 174\pi\text{cm}^3 \quad (546.36\text{cm}^3)$$

$$(3) V = 521\pi\text{cm}^3 \quad (1635.94\text{cm}^3) \\ S = 264\pi\text{cm}^2 \quad (828.96\text{cm}^2)$$

3. 立体の体積と表面積（回転） 3

$$(1) V = 405\pi\text{cm}^3 \quad (1271.7\text{cm}^3)$$

$$(2) V = \frac{407}{3}\pi\text{cm}^3$$

$$(3) V = 180\pi\text{cm}^3 \quad (565.2\text{cm}^3) \\ S = 156\pi\text{cm}^2 \quad (489.84\text{cm}^2)$$

5. 立体の体積と表面積（回転） 3

$$(1) V = 168\pi\text{cm}^3 \quad (527.52\text{cm}^3)$$

$$(2) V = \frac{731}{3}\pi\text{cm}^3$$

$$(3) V = 530\pi\text{cm}^3 \quad (1664.2\text{cm}^3) \\ S = 268\pi\text{cm}^2 \quad (841.52\text{cm}^2)$$

7. 立体の体積と表面積（回転） 3

$$(1) V = 64\pi\text{cm}^3 \quad (200.96\text{cm}^3)$$

$$(2) V = \frac{1340}{3}\pi\text{cm}^3$$

$$(3) V = 259\pi\text{cm}^3 \quad (813.26\text{cm}^3) \\ S = 196\pi\text{cm}^2 \quad (615.44\text{cm}^2)$$

9. 立体の体積と表面積（回転） 3

$$(1) V = \frac{833}{3}\pi\text{cm}^3$$

$$(2) V = \frac{697}{3}\pi\text{cm}^3$$

$$(3) V = 317\pi\text{cm}^3 \quad (995.38\text{cm}^3) \\ S = 192\pi\text{cm}^2 \quad (602.88\text{cm}^2)$$

2. 立体の体積と表面積（回転） 3

$$(1) V = 156\pi\text{cm}^3 \quad (489.84\text{cm}^3)$$

$$(2) V = \frac{964}{3}\pi\text{cm}^3$$

$$(3) V = 109\pi\text{cm}^3 \quad (342.26\text{cm}^3) \\ S = 94\pi\text{cm}^2 \quad (295.16\text{cm}^2)$$

4. 立体の体積と表面積（回転） 3

$$(1) V = \frac{128}{3}\pi\text{cm}^3$$

$$(2) V = \frac{631}{3}\pi\text{cm}^3$$

$$(3) V = 648\pi\text{cm}^3 \quad (2034.72\text{cm}^3) \\ S = 320\pi\text{cm}^2 \quad (1004.8\text{cm}^2)$$

6. 立体の体積と表面積（回転） 3

$$(1) V = \frac{275}{3}\pi\text{cm}^3$$

$$(2) V = 211\pi\text{cm}^3 \quad (662.54\text{cm}^3)$$

$$(3) V = 291\pi\text{cm}^3 \quad (913.74\text{cm}^3) \\ S = 212\pi\text{cm}^2 \quad (665.68\text{cm}^2)$$

8. 立体の体積と表面積（回転） 3

$$(1) V = \frac{400}{3}\pi\text{cm}^3$$

$$(2) V = \frac{248}{3}\pi\text{cm}^3$$

$$(3) V = 388\pi\text{cm}^3 \quad (1218.32\text{cm}^3) \\ S = 212\pi\text{cm}^2 \quad (665.68\text{cm}^2)$$

10. 立体の体積と表面積（回転） 3

$$(1) V = \frac{896}{3}\pi\text{cm}^3$$

$$(2) V = \frac{452}{3}\pi\text{cm}^3$$

$$(3) V = 100\pi\text{cm}^3 \quad (314\text{cm}^3) \\ S = 88\pi\text{cm}^2 \quad (276.32\text{cm}^2)$$

11. 立体の体積と表面積（回転） 3

$$(1) V = \frac{704}{3}\pi\text{cm}^3$$

$$(2) V = 106\pi\text{cm}^3 \quad (332.84\text{cm}^3)$$

$$(3) V = 116\pi\text{cm}^3 \quad (364.24\text{cm}^3) \\ S = 96\pi\text{cm}^2 \quad (301.44\text{cm}^2)$$

13. 立体の体積と表面積（回転） 3

$$(1) V = \frac{500}{3}\pi\text{cm}^3$$

$$(2) V = 122\pi\text{cm}^3 \quad (383.08\text{cm}^3)$$

$$(3) V = 336\pi\text{cm}^3 \quad (1055.04\text{cm}^3) \\ S = 248\pi\text{cm}^2 \quad (778.72\text{cm}^2)$$

15. 立体の体積と表面積（回転） 3

$$(1) V = \frac{176}{3}\pi\text{cm}^3$$

$$(2) V = 156\pi\text{cm}^3 \quad (489.84\text{cm}^3)$$

$$(3) V = 381\pi\text{cm}^3 \quad (1196.34\text{cm}^3) \\ S = 242\pi\text{cm}^2 \quad (759.88\text{cm}^2)$$

12. 立体の体積と表面積（回転） 3

$$(1) V = 125\pi\text{cm}^3 \quad (392.5\text{cm}^3)$$

$$(2) V = 80\pi\text{cm}^3 \quad (251.2\text{cm}^3)$$

$$(3) V = 339\pi\text{cm}^3 \quad (1064.46\text{cm}^3) \\ S = 212\pi\text{cm}^2 \quad (665.68\text{cm}^2)$$

14. 立体の体積と表面積（回転） 3

$$(1) V = \frac{980}{3}\pi\text{cm}^3$$

$$(2) V = 134\pi\text{cm}^3 \quad (420.76\text{cm}^3)$$

$$(3) V = 132\pi\text{cm}^3 \quad (414.48\text{cm}^3) \\ S = 106\pi\text{cm}^2 \quad (332.84\text{cm}^2)$$

16. 立体の体積と表面積（回転） 3

$$(1) V = \frac{350}{3}\pi\text{cm}^3$$

$$(2) V = \frac{1279}{3}\pi\text{cm}^3$$

$$(3) V = 294\pi\text{cm}^3 \quad (923.16\text{cm}^3) \\ S = 180\pi\text{cm}^2 \quad (565.2\text{cm}^2)$$