Assignment 7

Due on 3/04-15, 2018/19.

1. The following diagram shows an angle ABC, where AB = 10 cm, BC = 8 cm, and angle ABC = 60°. Calculate the area of the triangle ABC.

2. A rectangle has a length of 12 cm and a width of 5 cm. If the rectangle is rotated about its length, calculate the volume of the resulting cylinder.

3. A cylinder has a radius of 4 cm and a height of 10 cm. Calculate the surface area of the cylinder.

4. A cone has a radius of 6 cm and a height of 8 cm. Calculate the volume of the cone.

5. A sphere has a radius of 3 cm. Calculate the surface area and the volume of the sphere.

6. A cube has a side length of 5 cm. Calculate the volume and the surface area of the cube.

7. A cylinder has a radius of 4 cm and a height of 10 cm. If the cylinder is divided into 10 equal segments, calculate the volume of each segment.

8. A sphere has a radius of 3 cm. If the sphere is divided into 8 equal segments, calculate the volume of each segment.

9. A cone has a radius of 6 cm and a height of 8 cm. If the cone is divided into 5 equal segments, calculate the volume of each segment.

10. A cube has a side length of 5 cm. If the cube is divided into 27 equal segments, calculate the volume of each segment.

11. A sphere has a radius of 3 cm. If the sphere is divided into 27 equal segments, calculate the volume of each segment.

12. A cylinder has a radius of 4 cm and a height of 10 cm. If the cylinder is divided into 10 equal segments, calculate the volume of each segment.

13. A cone has a radius of 6 cm and a height of 8 cm. If the cone is divided into 5 equal segments, calculate the volume of each segment.

14. A cube has a side length of 5 cm. If the cube is divided into 27 equal segments, calculate the volume of each segment.

15. A sphere has a radius of 3 cm. If the sphere is divided into 27 equal segments, calculate the volume of each segment.