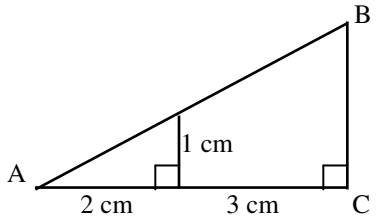
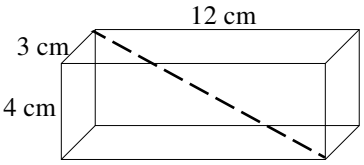
= Year 12 = Geometry&Trigonometry = Worksheet 1

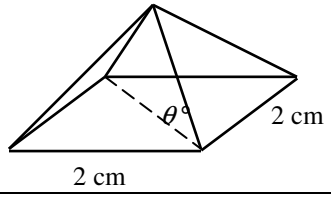
1. Find length AB in cm (round to 2 decimal places).



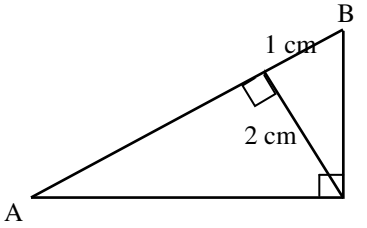
2. Find the length of the body diagonal of the rectangular solid.



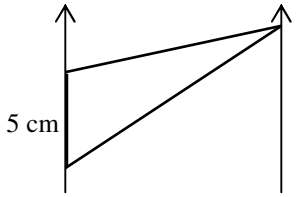
3. The following solid is a right pyramid with a square base and height of $\sqrt{2}$ cm. Find $\theta°$.



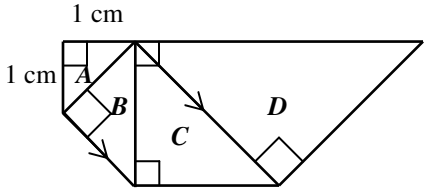
4. Find length AB in cm.



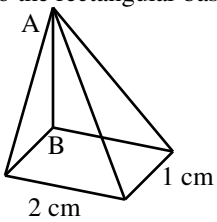
5. The area enclosed by the triangle is 35 cm^2. Find the shortest distance between the two parallel lines.



6. Find the length of the hypotenuse of triangle ***D***.

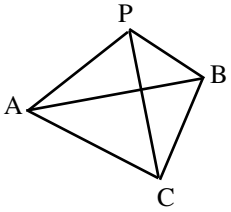


7. Find the total surface area (round to nearest cm^2) of the solid. AB = 3 cm and it is perpendicular to the rectangular base.



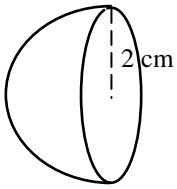
8. Find the volume (in cm^3) of the solid shown in Q7.

9. Find the total surface area (round to nearest cm^2) of the solid. PA = PB = PC = 2 cm and they are perpendicular to each other.



10. Find the volume (in cm^3) of the solid shown in Q9.

11. Find the (i) total surface area and (ii) volume of the hemispherical solid in terms of π.



Numerical, algebraic and worded answers.

1. 5.59 cm
2. 13 cm
3. 45°
4. 5 cm
5. 14 cm
6. 4 cm
7. 11 cm^2
8. 2 cm^3
9. 9 cm^2
10. 8/3 cm^3
11. (i) 12π cm^2
    (ii) $16\pi/3$ cm^3