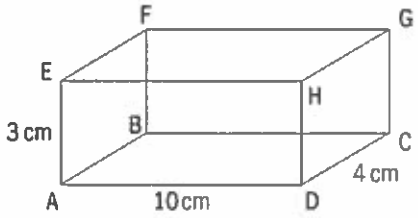
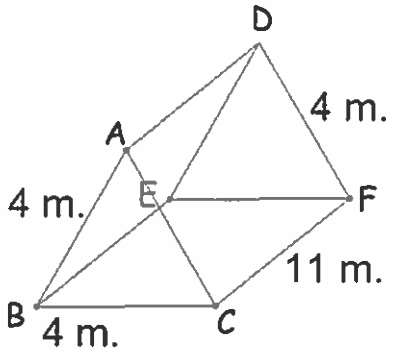
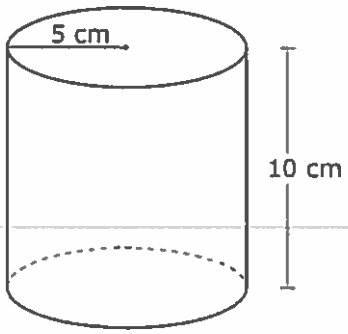
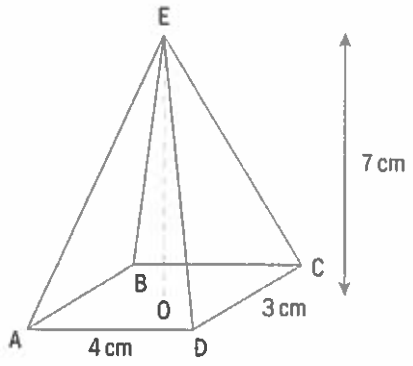
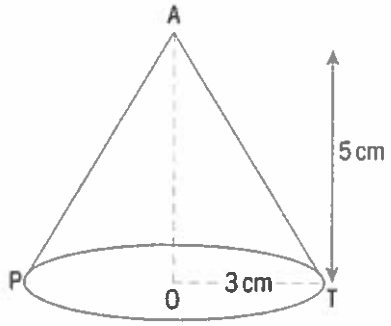
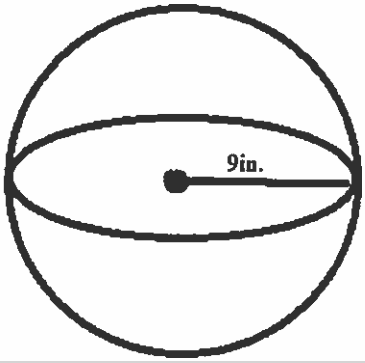
IB Math Studies Year 2

10.5 Volume of 3D Solids

Solid	Prism Volume → Area of the Base x Height $V = Bh$
	
	
	

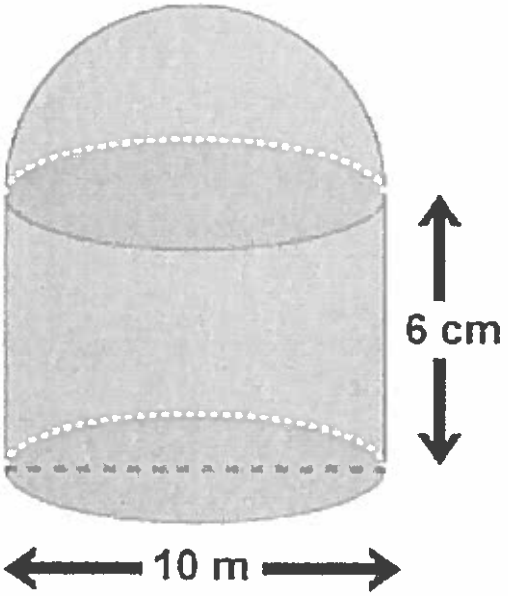
Solid	Use specific formulas for the volumes of other solids
	
	
	

IB Math Studies Year 2

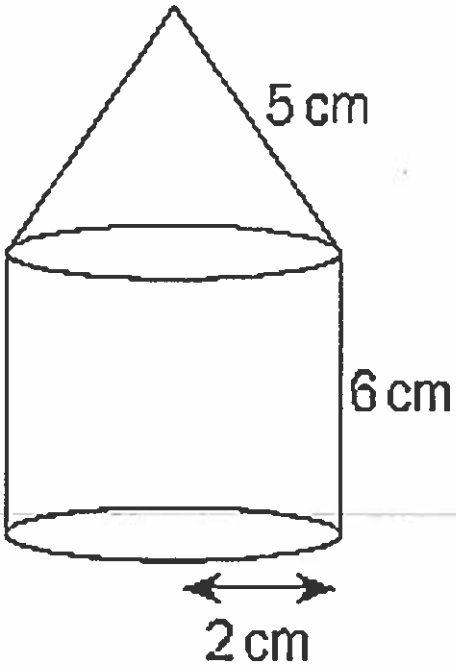
10.5 Volume of 3D Solids

Find the volume of each solid

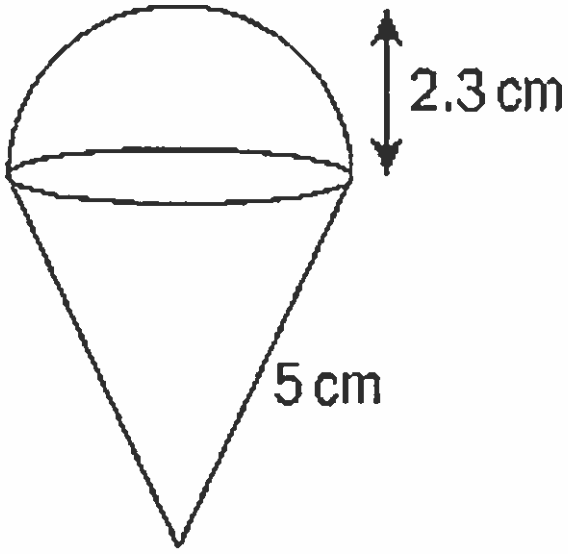
1.



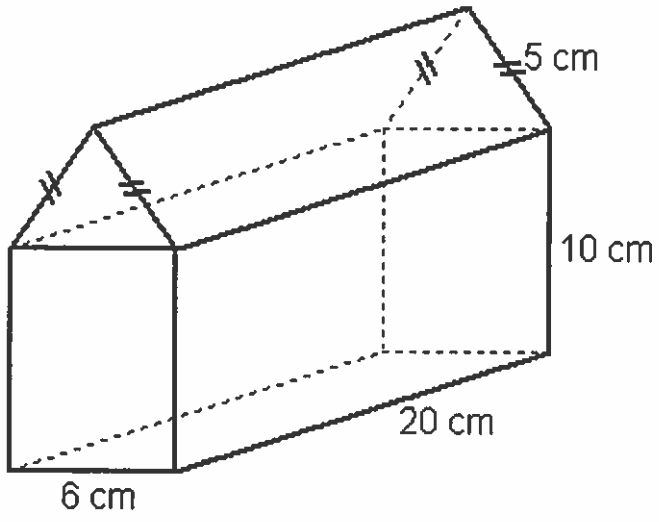
2.



3.



4.



Week 7 Thursday 3 October
Chapter Ten: 3D Geometry and Trigonometry
Topic: Review for Test
IB Syllabus: 5.5.1 Geometry of three dimensional shapes
Lesson Obj: Students will complete review questions for test

Review and Intro:

0. Homework Questions.
1. 4 Pics 1 Word
2. Paper 2 Review in class:
    - Nov 2012(Q3)
    - May 2012:TZ2(Q4)

Check for Understanding:

3. Students complete review problems
4. TEST next period

Assignment: Students will complete review problems
Evaluation:

3. *[Maximum mark: 19]*

A contractor is building a house. He first marks out three points A, B and C on the ground such that AB = 5 m, AC = 7 m and angle BAC = 112°.

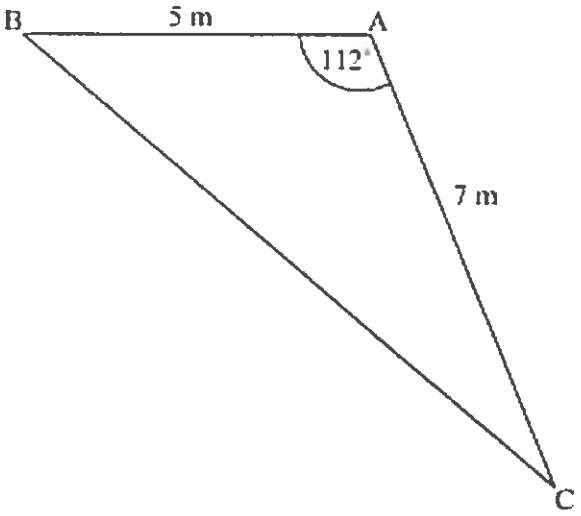


diagram not to scale

(a) Find the length of BC. *[3 marks]*

He next marks a fourth point, D, on the ground at a distance of 6 m from B, such that angle BDC is 40°.

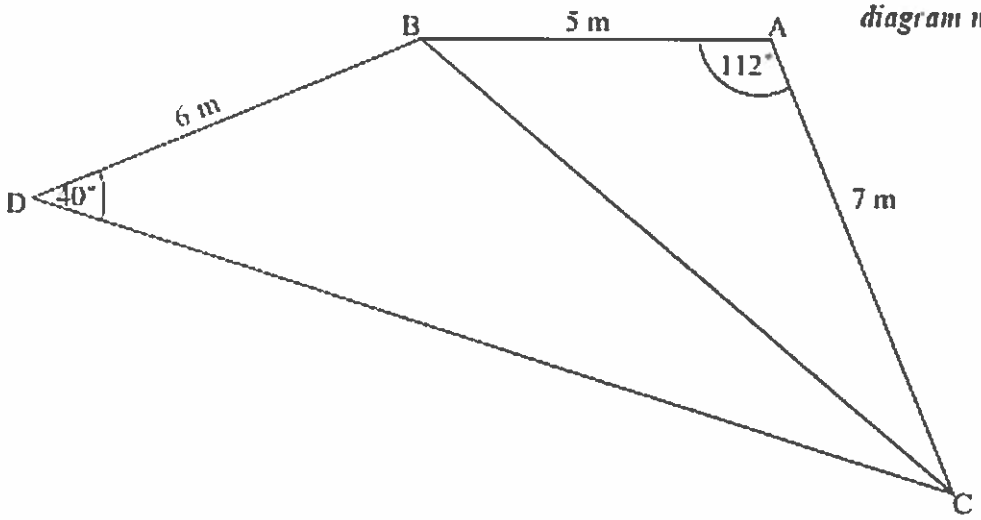


diagram not to scale

(b) Find the size of angle DBC. *[4 marks]*

(c) Find the area of the quadrilateral ABDC. *[4 marks]*

(This question continues on the following page)