

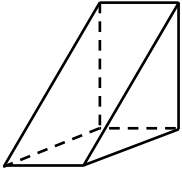
TB(1A) Ch. 6 Introduction to Geometry

Multiple Choice Questions

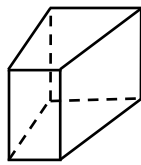
1. [11-12 Standardized Test 2 Q5]

Which of the following figures have uniform cross-sections?

I.



II.



III.



IV.



- A. I and II only
- B. I, II and III only
- C. I, III and IV only
- D. II, III and IV only

2. [11-12 Standardized Test 2 Q7]

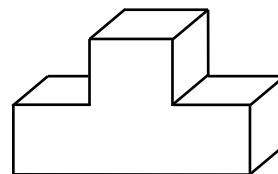
In $\triangle ABC$, $\angle A = \angle B + 1^\circ$ and $\angle B = \angle C + 1^\circ$. Which type of triangle does $\triangle ABC$ belong to?

- A. Acute-angled triangle
- B. Equilateral triangle
- C. Obtuse-angled triangle
- D. Right-angled triangle

3. [12-13 Standardized Test 2 Q3]

The following prism has

- A. 8 faces, 16 vertices and 16 edges.
- B. 9 faces, 12 vertices and 24 edges.
- C. 10 faces, 12 vertices and 16 edges.
- D. 10 faces, 16 vertices and 24 edges.



4. [12-13 Standardized Test 2 Q4]

Which of the following statements is/are correct?

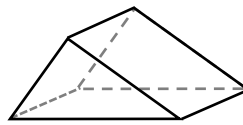
- I. A cylinder is a non-polyhedron.
- II. A regular polyhedron has a different regular polygon on every face.
- III. A concave polygon has only one of the interior angles being a reflex angle.

- A. I only
- B. II only
- C. I and III only
- D. II and III only

5. [12-13 Final Exam, 15]

The figure shows a triangular prism. What kind(s) of plane figure does/do its cross-section(s) belong to?

- I. Triangle
- II. Quadrilateral
- III. Pentagon



- A. I only
- B. II only
- C. I and II only
- D. II and III only

6. [13-14 Standardized Test 2 Q1]

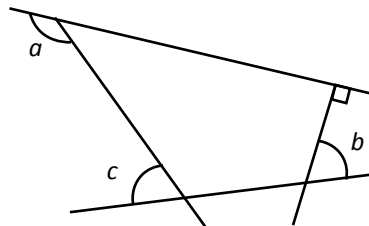
Which of the following quadrilaterals must be equilateral?

- I. Kite
- II. Square
- III. Rhombus

- A. I and II only
- B. I and III only
- C. II and III only
- D. I, II and III

7. [13-14 Standardized Test 2 Q4] (Book 2A Ch.6)

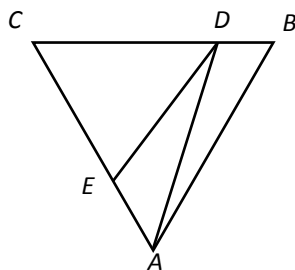
In the figure, find $a + b + c$.



- A. 180°
- B. 270°
- C. 360°
- D. 450°

8. [13-14 Standardized Test 2 Q9]

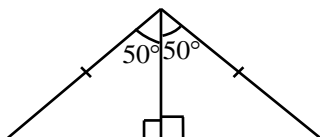
In $\triangle ABC$, $\angle ABC = \angle ACB = \angle BAC$, $\angle BAD = 14^\circ$ and $\angle CED = 66^\circ$. Find $\angle ADE$.



- A. 20°
- B. 24°
- C. 46°
- D. 80°

9. [14-15 Standardized Test Q6]

Which of the following statements about the figure is correct?



- I. There is an isosceles triangle.
- II. There is an acute-angled triangle.
- III. There is an obtused-angle angle.

- A. I and II only
- B. I and III only
- C. II and III only
- D. I, II and III

10. [14-15 Standardized Test Q7]

Which of the following statements about three-dimensional figure is correct?

- A. Cylinders are polyhedron.
- B. Spheres have uniform cross-section.
- C. Square pyramids are regular polyhedron.
- D. All faces of cuboids are equiangular polygons.

11. [15-16 Final Exam, #17]

Which of the following statements are true?

- I. It is possible to construct a concave regular hexagon.
- II. We can form a polyhedron with 20 edges, 11 vertices and 11 faces.
- III. Faces of a regular octahedron are equilateral triangles.

- A. I and II only
- B. I and III only
- C. II and III only
- D. I, II and III

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