

Name: _____

Date: _____

Review: Expressing Geometric Properties, Measurement, and Dimension

Conic Sections and 3D Objects. Identify the item described.

1. _____ Formed by a plane cutting vertically through a cone.
2. _____ Formed by attaching the edges of four isosceles triangles.
3. _____ Formed by taking a cross-section of a cone, parallel to the base.
4. _____ Formed by a major arc of a circle and another circle.

Sketch. Draw a net image of the following solids. Find their surface area and volume.

5. Cone; $r = 6$; $h = 12$; $l = 10$

6. Rectangular prism; $l = 13$; $w = 9$, $h = 2$

Determine whether the following lines are parallel, perpendicular, or neither.

A (2,5) B (6,4) C (7,8) D (5,7)

7. AB and BC

8. AD and AB

Identify the perimeter and area of the following objects.

9. Quadrilateral ABCD

A (3,5)

B (6, 1)

C (10, 4)

D (7, 8)

10. $\triangle LMN$

L (4,-2)

M (0, 1)

N (4, 1)

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Answer Key

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1. Parabola
2. Pyramid
3. Circle
4. Cone
5. $S = 301.44$; $V = 678.24$
6. $S = 322$; $V = 234$
7. Perpendicular
8. Neither
9. $P = 16$; $A = 16$
10. $P = 12$; $A = 6$