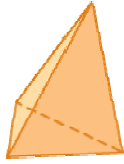


Lesson 5-5

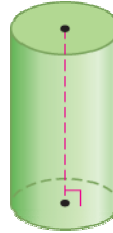
Example 1

Identify the figure.

a.



b.

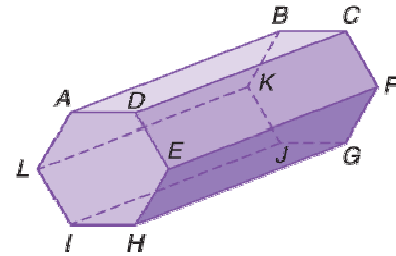


Solution

- a. Triangular pyramid-it has one triangle base and triangular faces.
- b. Right cylinder-it has two circular bases and curved surface.

Example 2

For the hexagonal prism at the right, identify the bases, a pair of intersecting faces and the edge at which they intersect, and a pair of skew lines.



Solution

Some answers may vary.

Bases: $ADEHIL$ and $BCFGJK$

Pair of intersecting faces: $ADCB$ and $DEFC$

Edge where these two faces intersect: \overline{DC}

Pair of skew edges: \overline{EF} and \overline{JH}

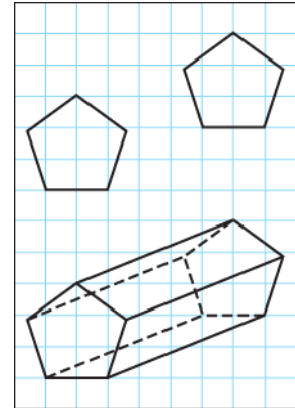
Example 3

ARCHEOLOGY An archeologist says that a Greek artifact is in the shape of a right pentagonal prism. Draw the prism.

Solution

Step 1: Draw two congruent pentagons on graph paper.

Step 2: Use a straightedge to connect the corresponding vertices. Use dotted lines to show the unseen lateral edges.

**Example 4**

Describe the locus of points 4 cm from a given point, P . All points lie within the same plane.

Solution

Draw point P on a sheet of paper. Locate and mark several points 4 cm from it. If you continue to add points to the drawing, what figure is formed? A circle with a radius of 4 cm.