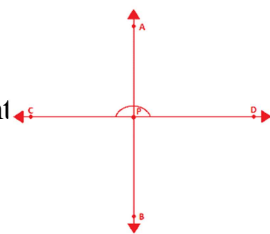


(3 points each) Tell whether each statement is true or false. If the statement is false, draw a counterexample or correct the statement so that it is true.

1. The three basic building blocks (undefined terms) of geometry are lines, rays, and segments.
 False points, lines, planes
2. "The ray from point R through points P and Q" is named as \overrightarrow{RP} or \overrightarrow{RQ} .
 True
3. "The line segment from point P to point Q" is named as \overline{PQ} .
 True
4. The length of line segment PQ is named as \overline{PQ} .
 False $m\overline{PQ}$ or PQ
5. The vertex of angle ABC is point A.
 False B
6. An obtuse angle is an angle whose measure is greater than 90° .
 True
7. An isosceles triangle is a triangle with no two sides the same length.
 False at least two sides congruent
8. A diagonal is a line segment connecting any two vertices of a polygon.
 False two nonconsecutive
9. If \overline{AB} intersects \overline{CD} at point P, then $\angle APC$ and $\angle APD$ are a pair of vertical angles. (Point P is between points A and B, and also between points C and D.)
 False linear pair of angles
10. If the sum of the measures of two angles is 90° , then the two angles are complementary.
 True
11. If two lines do not intersect, then they are parallel.
 False in the same plane
12. A chord is a line that intersects a circle in exactly one point.
 False tangent
13. A trapezoid is a quadrilateral that has exactly one pair of equal length sides.
 False parallel
14. If the measure of $\angle D$ is 133° , then the reflex measure of $\angle D$ is 227° .
 True
15. A polygon with eight sides is called a hexagon.
 False octagon



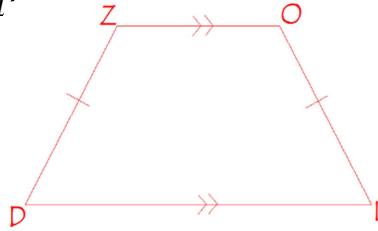
(2 points each) Match each term with its figure.

16. Obtuse scalene triangle
 I
17. Isosceles right triangle
 B
18. Hexagon
 D
19. Prism
 G
20. Pyramid
 H

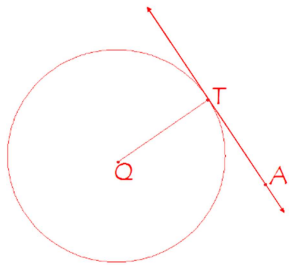
a.		b.	
c.		d.	
e.		f.	
g.		h.	
i.			

(5 points each) Sketch, mark, and label each figure.

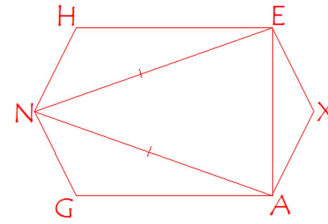
21. Trapezoid ZOID with $\overline{ZO} \parallel \overline{ID}$ and $IO = ZI$



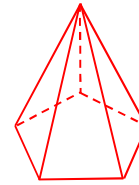
22. Circle Q with radius \overline{QT} and tangent \overline{AT}



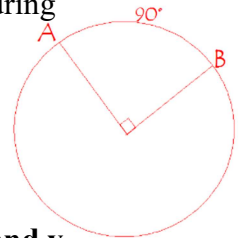
23. A hexagon HEXAGN with vertices N, E, and A joined to form isosceles triangle NEA such that $\overline{NE} \cong \overline{NA}$



24. A pyramid with a pentagonal base

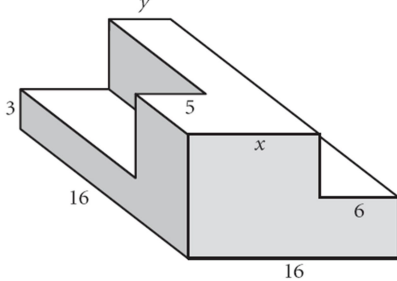


25. A circle with an arc AB measuring 90°



(5 points each) Every angle on each block is a right angle. Find the lengths x and y in each figure.

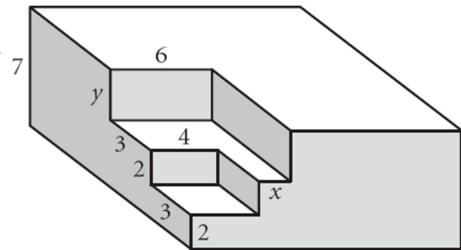
26. :



$x = 10$

$y = 5$

27. :

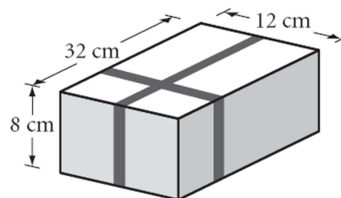


$x = 2$ $y = 3$

(5 points each) Complete.

28. The box below is wrapped with two strips of ribbon as shown. What length of ribbon was needed to decorate the box?

$$\begin{aligned} 2(12) &= 24 \\ 2(32) &= 64 \\ 4(8) &= 32 \\ \hline &120 \text{ cm} \end{aligned}$$



29. At one point in a race, Sleepy was 25 feet behind Sneezzy and 28 feet ahead of Doc. Doc was trailing Bashful by 40 feet. By how many feet was Sneezzy ahead of Bashful?

