- Tell whether a point, a line, or a plane is illustrated by the tip of a pen.
- Tell whether a point, a line, or a plane is illustrated by the edge of a textbook.

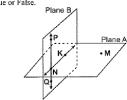
Point

Line

- PQ has only one endpoint. TRUE FALSE
 A) True
 B) Palse
- A line segment has exactly one midpoint.
 TRUE FALSE
 A) False
 B) True

Question 5 refers to the following:

In the diagram below, points $P,\,N,\,$ and Q are collinear. Indicate whether the given statement is True or False.



- 5) Points P, K, N, and Q are coplanar. TRUE FALSE
- A) True

B) False

Question 6 refers to the following:

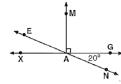
Use the figure below to name a segment, ray, or point that best completes the given statement.

6) the ray opposite \overrightarrow{TK} is

Question 7 refers to the following:

In the diagram below, $XG \leftrightarrow$ and $EN \leftrightarrow$ intersect at A, $AM \rightarrow \bot XG \leftrightarrow$, and $m \angle GAN = 20^\circ$.





7) Name two right angles.

Question 8 refers to the following:

Given the line segments illustrated below.

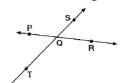
<u>x</u> <u>y</u> <u>z</u>

8) Construct a line segment whose length is y + z.



/ /

Question 9 refers to the following:



9) Points P, Q, and R are collinear. TRUE FALSE

A) True

B) False



A)



C)



11. Which diagram shows the construction of a 45° angle?

Δ



C)

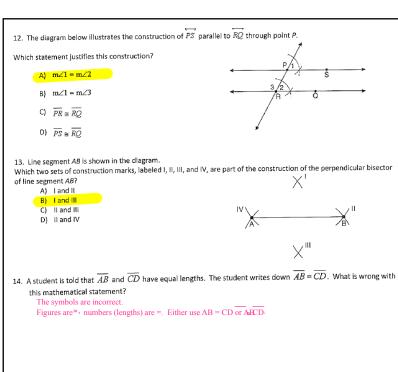


B)



D)





15. One step in a construction uses the endpoints of \overline{AB} to create arcs with the same radii. The arcs intersect above and below the segment. What is the relationship of \overline{AB} and the line connecting the points of intersection of these arcs?

- A) collinear
- B) congruent
- C) parallel
 D) Perpendicular

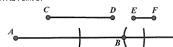
16. The diagram below shows the construction of the perpendicular bisector of \overline{AB} . Which statement is not true? A) AC = CB

- B) $CB = \frac{1}{2}AB$
- C) AC = 2ABD) AC + CB = AB



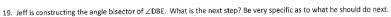
17. What is the best description for the distance from Point A to Point B?

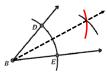
- A) CD + 2EF C) 2CD - EF
- B) CD EF D) 2CD + EF



18. Given the diagram, determine the description which is false.

- A) The circle circumscribes the hexagon.
- B) The hexagon circumscribes the triangle.
- C) The hexagon is inscribed in the circle.
- D) The triangle is inscribed in the circle.



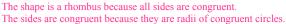


Without changing the setting, place the needle on D. Make an arc to intersect the arc already there.

Connect B to the place where the arcs intersect.

20. Lindsay notices that while doing a construction a 'hidden' shape appeared – a rhombus. Where is the rhombus hidden in this shape?

Draw in the segments that form the rhombus and explain why must it be a rhombus?



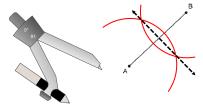


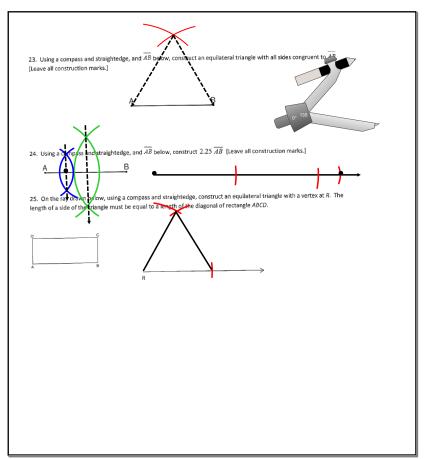


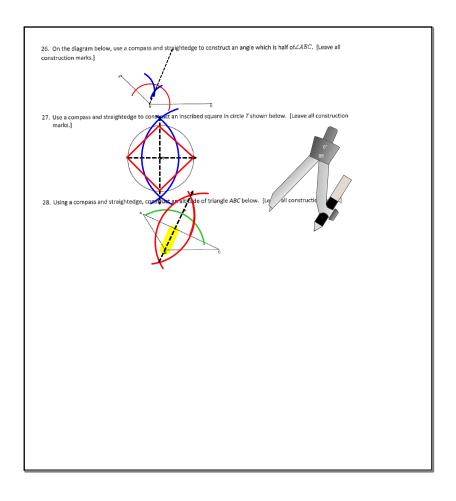
21. Using a compass and straightedge, construct the bisector of the angle shown below. [Leave all construction marks.]



22. Using a compass and straightedge, construct the perpendicular bisector of \overline{AB} . [Leave all construction marks.]







September 25, 2017

