

ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION

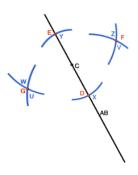
Sub: Algebra and Geometry Duration: 40 min

Class: 7 Worksheet-8 Date: 22.04.20 Full Marks: 15

GEOMETRICAL CONSTRUCTION CONTINUED

Choose the Correct options:

1. What is this construction?

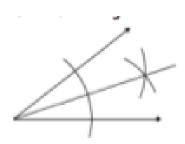


- a) Perpendicular Bisector
- b) Perpendicular Through Point Not On Line
- c) Parallel Line Though Given Point
- d) Perpendicular Line Through Point On Line.
- 2. What is this?



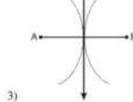
- a) Compass
- b) Circle creator
- c) Pencil swingy-thing
- d) Arc maker.

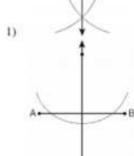
3. Which of the following constructions is illustrated?

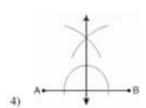


- a) An angle is congruent to a given angle
- b) The bisector of a given angle
- c) The bisector of a given segment
- d) The perpendicular bisector of a given segment.
- Which diagram shows the construction of the perpendicular bisector of AB?









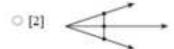
a) 1

2)

- b) 2
- c) 3
- d) 4

Which diagram below shows a correct mathematical construction using only a compass and a straightedge to bisect an angle?



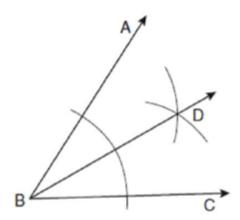






- a) 1
- b) 2
- c) 3
- d) 4

6. Based on the construction below, which statement must be true?

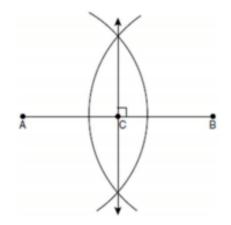


- 1) $m\angle ABD = \frac{1}{2} m\angle CBD$
- m∠ABD = m∠CBD
 m∠ABD = m∠ABC
- $m\angle CBD = \frac{1}{2} m\angle ABD$

- a) 1
- b) 2
- c) 3
- d) 4

7.

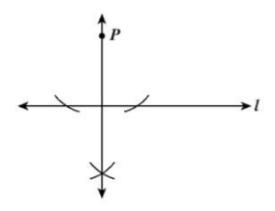
The diagram below shows the construction of the perpendicular bisector of \overline{AB} .



Which statement is not true?

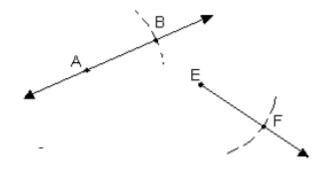
- AC = CB
- CB = $\frac{1}{2}AB$
- 3) AC = 2AB
- 4) AC+CB = AB
- a) 1
- b) 2
- c) 3
- d) 4
- 8. What does the word BISECT mean?
 - a) To cut something into more than five pieces.
 - b) It is a plane with two sets of wings.
 - c) A shape that has three sides.
 - d) To cut something into two congruent pieces or in half.

9. This construction forms a _____.



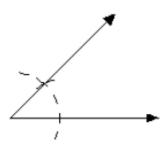
- a) Perpendicular Bisector
- b) Perpendicular Line through a point off the given line
- c) Perpendicular Line through a point on the given line
- d) Parallel Lines

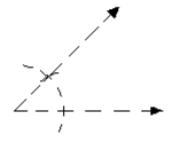
10. 10. The picture represents a compass and straightedge construction of



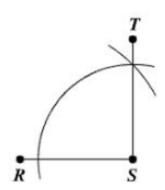
- a) Bisect a line segment
- b) Copy an angle
- c) Bisect an angle
- d) Copy a line segment

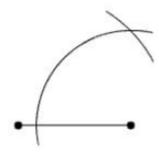
11. The picture represents a compass and straightedge construction of _____?





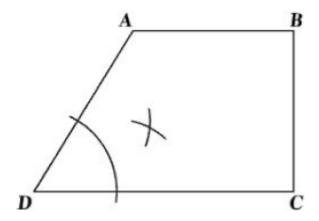
- a) Copy an angle
- b) Bisect an angle
- c) Copy a line segment
- d) Bisect a line segment
- 12. Which type of construction is illustrated in the figure?





- a) Copy a line segment
- b) Parallel lines
- c) Bisect an angle
- d) Copy an angle

13. What type of construction is illustrated in the diagram?



- a) Angle congruent to angle D
- b) Line segment congruent to AD
- c) Angle congruent to angle D
- d) Bisection of angle D
- 14. What must you be given to construct an equilateral triangle by compass?
- a) One side
- b) One angle
- c) Two side
- d) One angle and one side
- 15. If you are given only a compass and a ruler which angle is not possible to construct?
- a) 37.5
- b) 33.75
- c) 40
- d) 120