Name _____   Date _____
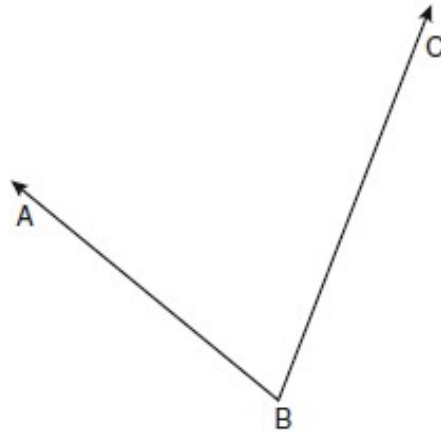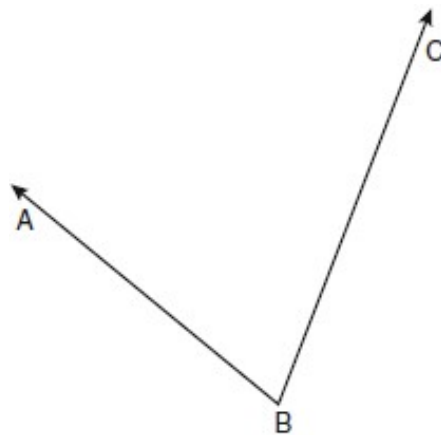Mr. Schlansky   Geometry

Constructions Regents Review

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

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

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

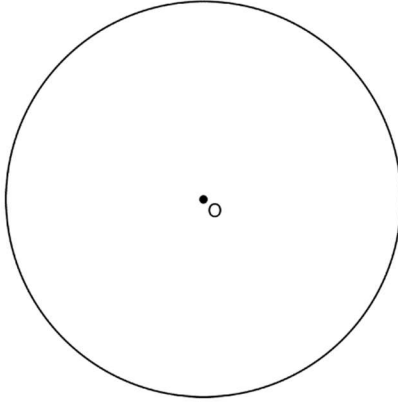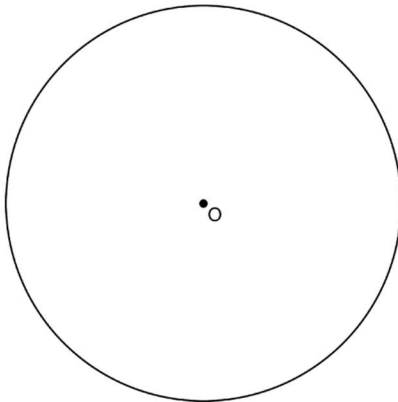A   B

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

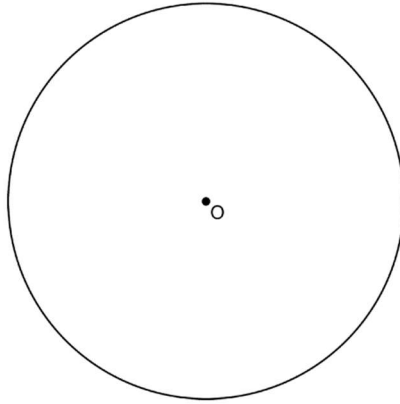A   B

5. Using a straightedge and compass, construct a hexagon inscribed in circle O below. [Leave all construction marks.]
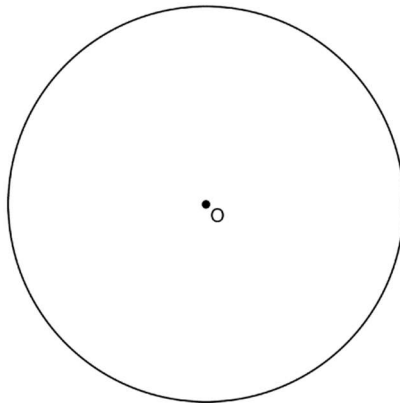
6. Using a straightedge and compass, construct an equilateral inscribed in circle O below. [Leave all construction marks.]

7. Using a straightedge and compass, construct a square inscribed in circle O below. [Leave all construction marks.]

8. Using a straightedge and compass, construct a square inscribed in circle O below. [Leave all construction marks.]
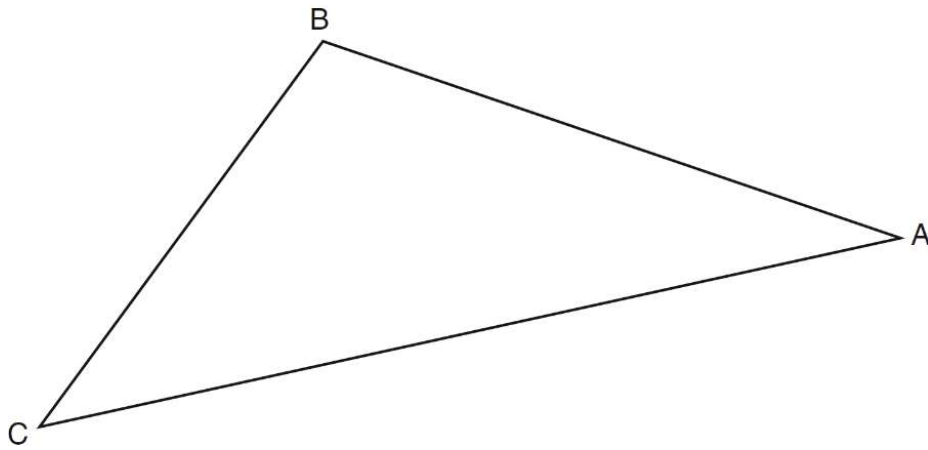
9. Using a compass and straightedge, and $\overline{AB}$ below, construct an equilateral triangle with all sides congruent to $\overline{AB}$. [Leave all construction marks.]

A   B

10. Using a compass and straightedge, and $\overline{AB}$ below, construct an equilateral triangle with all sides congruent to $\overline{AB}$. [Leave all construction marks.]
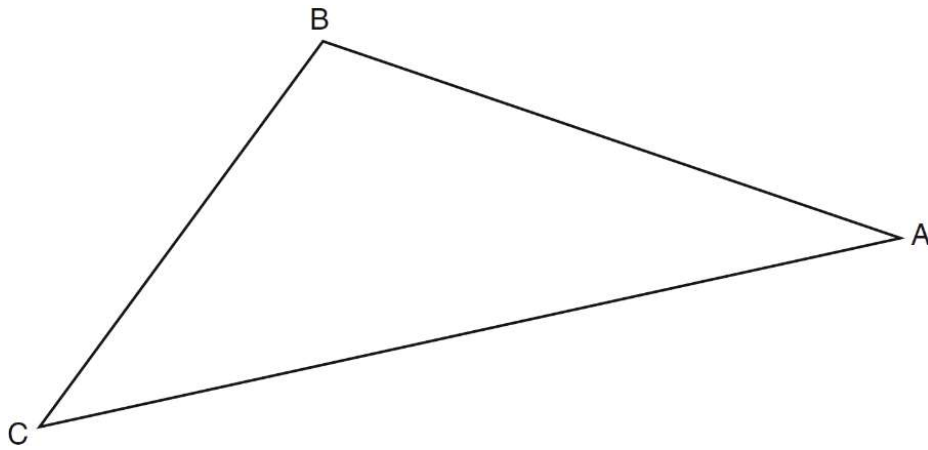
A   B

11. Using a compass and straightedge, construct a median to side AB. [Leave all construction marks.]

B

A

C

12. On the diagram of $\triangle ABC$ shown below, use a compass and straightedge to construct an altitude from B to side $\overline{AC}$. [Leave all construction marks.]
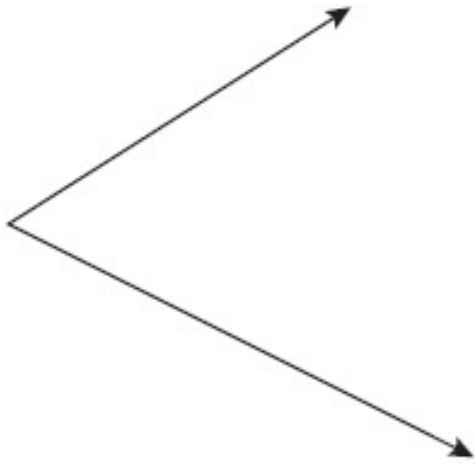
A

B

C
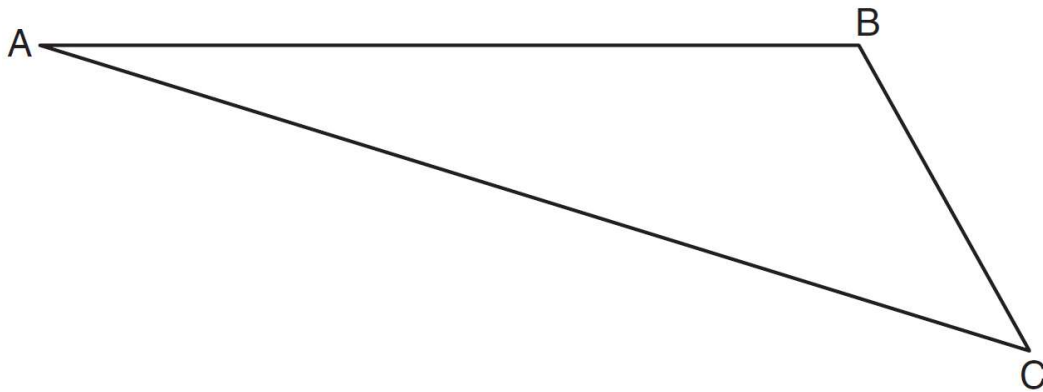
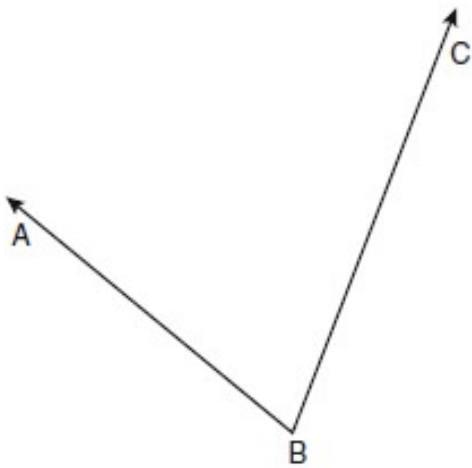13. Using a compass and straightedge, construct a median to side AB. [Leave all construction marks.]

14. On the diagram of $\triangle ABC$ shown below, use a compass and straightedge to construct an altitude from B to side $\overline{AC}$. [Leave all construction marks.]
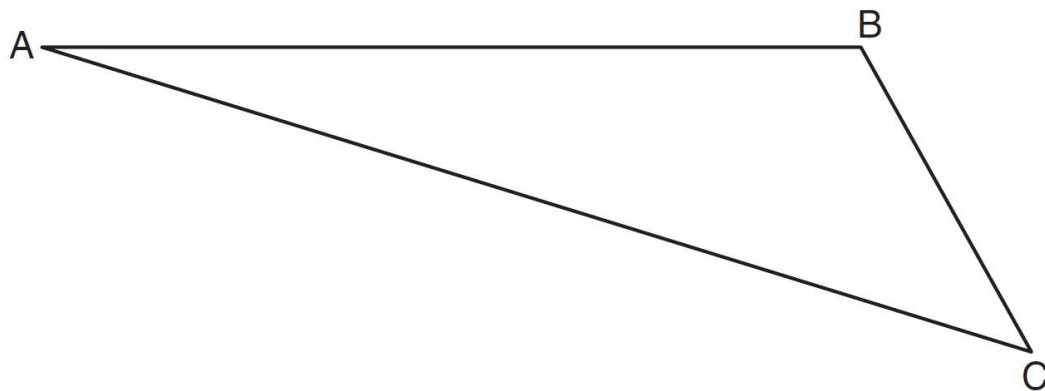
15. Using a compass and straightedge, copy the angle shown below. [*Leave all construction marks.*]

16. Using a compass and straightedge, copy the angle shown below. [*Leave all construction marks.*]
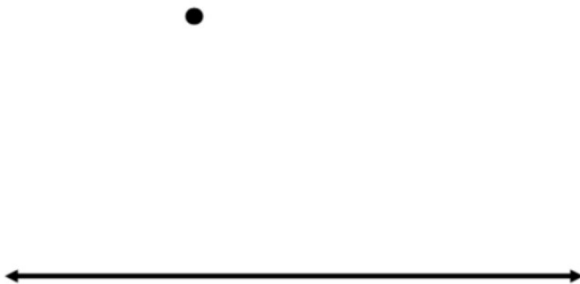
A

B

C

17. Using a compass and a straightedge, construct a line parallel to the given line that passes through the given point.

18. Using a compass and a straightedge, construct a line parallel to the given line that passes through the given point.
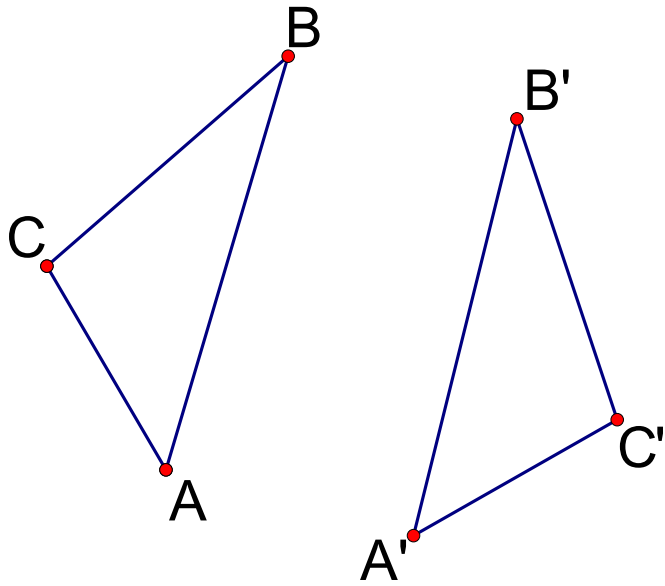
19. Triangle *ABC* is shown below. Using a compass and straightedge, construct the dilation of △*ABC* centered at *B* with a scale factor of 2. [Leave all construction marks.]
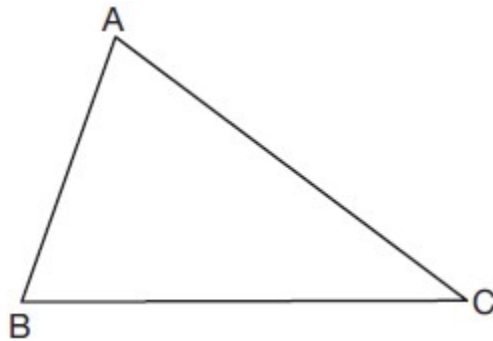
20. Triangle *ABC* is shown below. Using a compass and straightedge, construct the dilation of △*ABC* centered at *C* with a scale factor of 3. [Leave all construction marks.]
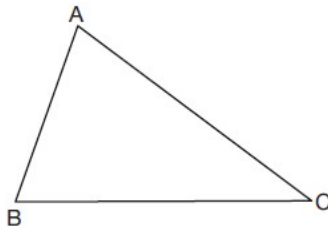
21. Construct the line of reflection for the following:

22. Construct the line of reflection for the following: