BASIC CONSTRUCTIONS

Use a straight edge and a compass to construct the following.

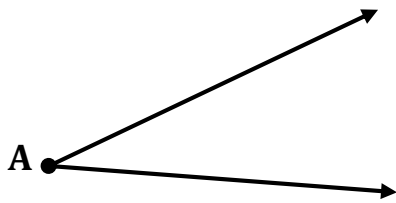| 1. Copy $\overline{AB}$. |
| :--- |

A •————————————• B
A   B
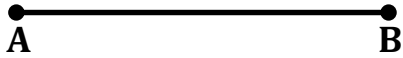
Conclusion: AB = _____. **Thus,** _____ $\cong$ _____.

2. Bisect $\overline{AB}$. Label the midpoint M.

A •————————————————————————————• B
A   B

Conclusion: AM = _____= $\frac{1}{2}$ AB.

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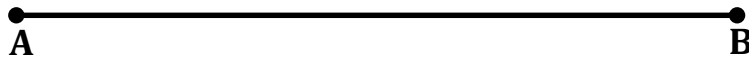
3. Copy ∠A.

CONCLUSION: $m\angle A$ = _____

Thus, _____ ≅ _____ by definition of congruent angles.

4. Bisect ∠A.
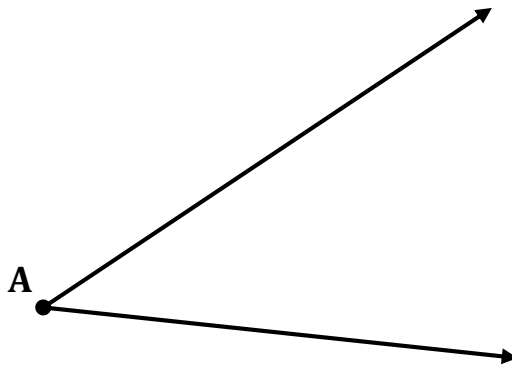
CONCLUSION: By construction, _____ is the bisector of ∠A.

Therefore, $m\angle$_____ = $m\angle$_____and

∠_____ ≅ ∠_____.