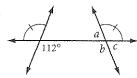
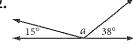
Lesson 2.5 • Angle Relationships

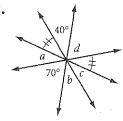
Period Date

For Exercises 1-6, find each lettered angle measure without using a protractor.

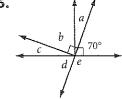


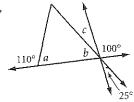
2.











For Exercises 7–10, tell whether each statement is always (A), sometimes (S), or never (N) true.

- 7. _____ The sum of the measures of two acute angles equals the measure of an obtuse angle.
- **8.** _____ If $\angle XAY$ and $\angle PAQ$ are vertical angles, then either X, A, and P or X, A, and Q are collinear.
- **9.** ____ If two angles form a linear pair, then they are complementary.
- 10. ____ If a statement is true, then its converse is true.

For Exercises 11-15, fill in each blank to make a true statement.

- 11. If one angle of a linear pair is obtuse, then the other is _____
- **12.** If $\angle A \cong \angle B$ and the supplement of $\angle B$ has measure 22°, then
- **13.** If $\angle P$ is a right angle and $\angle P$ and $\angle Q$ form a linear pair, then
- **14.** If $\angle S$ and $\angle T$ are complementary and $\angle T$ and $\angle U$ are supplementary, then $\angle U$ is a(n) angle.
- 15. Switching the "if" and "then" parts of a statement changes the statement to its ______.