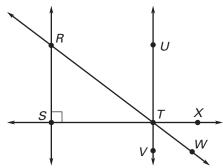
Practice C

For use with pages 79-85

Use the diagram to determine whether the statement is true or false.

- **1.** Points R, S, and T are collinear.
- **2.** $\angle UTR$ and $\angle UTW$ are supplementary.
- **3.** Points R, S, and T lie in the same plane.
- **4.** \overrightarrow{TS} is perpendicular to \overrightarrow{RS} .
- **5.** $\angle VTS$ and $\angle UTX$ are vertical angles.
- **6.** $\angle STR$ and $\angle RTU$ are complementary.
- 7. Line \overrightarrow{RW} bisects $\angle UTS$.



Rewrite the biconditional statement as a conditional statement and its converse.

- **8.** An angle is acute if and only if it measures less than 90°.
- **9.** Three points are collinear if and only if they lie on the same line.
- 10. I eat pizza if and only if it is Friday night.
- 11. The game is cancelled if and only if it rains.
- **12.** A number is divisible by 6 if and only if it is divisible by 2 and 3.

Write the converse of each true statement. If the converse is also true, combine the statements to write a true biconditional statement. If the converse is false, give a counterexample.

- 13. If you live in Detroit, then you live in Michigan.
- **14.** If an angle measures 30°, then it is acute.
- **15.** If two angles are supplementary, then their sum is 180°.
- **16.** If two angles are congruent, then they have the same measure.
- 17. If two angles are vertical angles, then they are not adjacent.

In Exercises 18-20, use the information in the table to write a definition for each type of saxophone.

- **18.** E-flat baritone saxophone
- **19.** B-flat tenor saxophone
- **20.** E-flat alto saxophone
- **21.** If the frequency of a saxophone was 100 Hz, what could you conclude?

Instrument

E-flat baritone saxophone

B-flat tenor saxophone

E-flat alto saxophone

22. If the frequency of a saxophone was 150 Hz, what could you conclude?

Frequency (cycles per second)

Upper limit

416

622

831

Lower limit

69

104

138