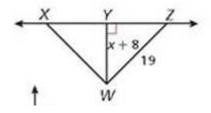
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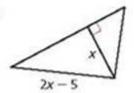
#6-7, 10-12, 14, 16-21, 22, 24, 31, 33

- **6.** Name the shortest segment from point W to \overline{XZ} .
- 7. Write and solve an inequality for x.

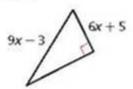


For each diagram, write and solve an inequality for x.

10.

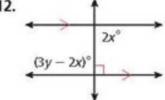


11.

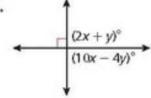


Multi-Step Solve to find x and y

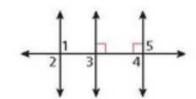
12



14



Determine if there is enough information given in the diagram to prove each statement.



22. Critical Thinking Are the Reflexive, Symmetric, and Transitive Properties true for perpendicular lines? Explain why or why not.

Reflexive: $\ell \perp \ell$

Symmetric: If $\ell \perp m$, then $m \perp \ell$.

Transitive: If $\ell \perp m$ and $m \perp n$, then $\ell \perp n$.

24. Geography Felton Avenue, Arlee Avenue, and Viehl Avenue are all parallel. Broadway Street is perpendicular to Felton Avenue. Use the satellite photo and the given information to determine the values of x and y.



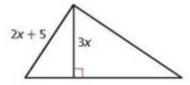
31. Which inequality is correct for the given diagram?

(A)
$$2x + 5 < 3x$$
 (C) $2x + 5 > 3x$

$$(2x + 5 > 3x)$$

B
$$x > 1$$
 D $x > 5$

$$\bigcirc x > 5$$



33. If $\ell \perp m$, which statement is NOT correct?

