

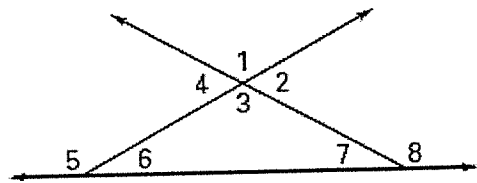
Use the diagram to tell whether the angles are vertical angles, a linear pair, or neither.

25. $\angle 1$ and $\angle 2$ linear pair

26. $\angle 2$ and $\angle 4$ vertical angles

27. $\angle 5$ and $\angle 7$ neither

28. $\angle 7$ and $\angle 8$ linear pair



66.

Statement	Reason
$3x - 7 = 20$	Given
$\quad + 7 \quad + 7$	Addition property
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$3x = 27$	division property
$\frac{3x}{3} = \frac{27}{3}$	
$x = 9$	Simplify

67.

Statement	Reason
$2x + 5 = -17$	Given
$\quad - 5 \quad - 5$	Subtraction property
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$2x = -22$	division property
$\frac{2x}{2} = \frac{-22}{2}$	
$x = -11$	Simplify

S	R
$\angle 2 \cong \angle 3$	Given
$\angle 2 \cong \angle 1$	Vertical angle
$\angle 3 \cong \angle 4$	Vertical angle
$\angle 1 \cong \angle 4$	Transitive property

69. Write a two column proof.

Given: $\angle 2 \cong \angle 3$

Prove: $\angle 1 \cong \angle 4$

