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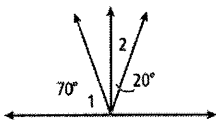
1.



2. 5

3. even

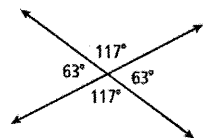
4. Possible answer: $\angle 1$ and $\angle 2$ are comp., but not adj.



5. Hypothesis: It rains. Conclusion: The show is cancelled.

6. If 2 lines are \parallel , then they do not intersect.

7. False; possible answer:



8. True

9. If you live in Kentucky, then you live in the United States; True.

10. If you do not live in the United States, then you do not live in Kentucky; True.

11. If you do not live in Kentucky, then you do not live in the United States; False.

12. valid

13. Figure $ABCD$ is a polygon.

14. Conditional: If Chad works on Saturday, then he gets paid overtime. Converse: If Chad gets paid overtime, then he will work on Saturday.

15. False; B is not between A and C .

16. $8 - 5s = 1$ (Given); $-5s = -7$ (Subtr. Prop. of $=$); $s = 1.4$ (Div. Prop. of $=$)

17. $0.4t + 3 = 1.6$ (Given); $0.4t = -1.4$ (Subtr. Prop. of $=$); $t = -3.5$ (Div. Prop. of $=$)

18. $38 = -3w + 2$ (Given); $36 = -3w$ (Subtr. Prop. of $=$); $-12 = w$ (Div. Prop. of $=$)

19. Trans. Prop. of $=$

20. Reflex. Prop. of $=$

21. Trans. Prop. of \cong

22. Sym. Prop. of \cong

23. 1. $\angle AFB \cong \angle EFD$ (Given)
 2. $\angle EFD \cong \angle BFC$ (Vert. \angle s Thm.)
 3. $\angle AFB \cong \angle BFC$ (Trans. Prop. of \cong)
 4. \overline{FB} bisects $\angle AFC$. (Def. of \angle bisector)

24. It is given that $\angle AFB \cong \angle EFD$. By the Vert. \angle s Thm., $\angle EFD \cong \angle BFC$. Therefore, $\angle AFB \cong \angle BFC$ by the Trans. Prop. of \cong . So \overline{FB} bisects $\angle AFC$ by the def. of \angle bisector.

25.

