Chapter 2 Review Homework Answers Pg 108 - #1-27

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| 1. | Hypothesis: $x + 9 = 11$ | 19. $\angle BCE \cong \angle DCF$ by the markings. |
| | Conclusion: $x = 2$ | $\angle BCF \cong \angle ECD$ by the angle addition |
| 2. | If something is a baby, then it is cute. | postulate.20. If a fish is a bluegill, then it is a bluish, freshwater fish.If a fish is a bluish, freshwater fish, then it is a bluegill. |
| 3. | Counter-example: two $45^{\circ} \angle s$ are complementary & \cong . | |
| | a) If a figure has 2 right \angle 's, then it is a rectangle. | |
| | b) false | 21. congruent |
| 5. | , | 22. not possible |
| | | 23. James must graduate from college. |
| | b) false | 24. $p \rightarrow r$ is true |
| 6. | a) If it is not summer, then it is snowing in | 25. <i>q</i> is true |
| | South Carolina. | 26. not possible |
| | b) false | 27. a) 90 |
| 7. | Not reversible. Counter-example: a pen | b) Angle Addition Postulatec) Substitution Propertyd) defn of right angle |
| 8. | Not true. Counter-example: 2 nonadjacent \angle 's may be complementary. | |
| 9. | Not precise. Any two $\angle s$ may be congruent. | |
| | Also not reversible. | |
| 10 | . Transitive POE or Substitution Property | |
| 11. Subtraction POE | | |
| 12 | . Reflexive POC | |
| 13 | . Multiplication POE | |
| 14 | . Symmetric POC | |
| 15 | . a) 135 b) 135 c) 180 d) 45 e) 180 f) 90 | |
| 16 | . 180 – 2z | |
| 17.71 | | |
| 18 | $m \angle VNM = 62$ because vert. $\angle s$ are congruent. | |
| | $m \angle LNV = m \angle PNM = 118$ because both are supplementary to $\angle LNP$ | |
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