

Answers Lesson 2-3

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1. Felicia will pass the music theory course.
2. Rashid must study hard.
3. Line l and line m do not intersect.
4. It is not safe for Maria to be out in the open.
5. Figure ABCD has two pairs of parallel sides.
6. Not possible
7. Points X , Y , and Z are collinear.
8. Not possible
9. Nadine Muzerall attended the University of Minnesota.
10. If an animal is a red wolf, then it is endangered.
11. If 2 planes are not parallel, then they intersect in a line.
12. If you read a good book, then your time is well spent.
13. If you are studying botany, then you are studying a science.
14. If an Alaskan mountain is over 20,300' high, then it is the highest in the U.S.
Alaska's Mt. McKinley is the highest mountain in the U.S.

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15. If you live in Little Rock, then you live in the 25th state to enter the union.
Levon lives in the 25th state to enter the union.
23. If you are in Key West FL, the temp is always $> 32^{\circ}\text{F}$.
Not possible to use Law of Detachment
25. If a figure is a square, then it is a rectangle.
ABCD is a rectangle.
27. No; red cars can never park.
29. Yes
31. Yes
38. No. Counter-example: Two rays that don't intersect don't form an angle.
39. Good definition
40. North Carolina
41. $\frac{1}{2}$... many other answers are possible.
42. Sometimes
43. Never
44. Always

Answers Lesson 2-3

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1. Hypothesis: $x > 5$ Conclusion: $x^2 > 25$
2. If something is a rose, then it is a beautiful flower.
3. If an integer is divisible by 2, then it ends with 0.
4. 42 is divisible by 2 but doesn't end with 0 (others possible)
5. If an angle is an acute angle, its measure is between 0 & 90
6. Points are collinear *iff* they lie on the same line.
7. A graphing calculator has a keyboard & memory (...)
8. Theresa has passing grades.
9. If a student studies geometry, the student's mind is expanded.
10. Not possible