2.1, 2.2, 5.4 Review Answers

1. If an angle measures 40 degrees, then it is acute.

2. If you are a champion, then you are afraid of losing.

3. If you are happy, then you rarely correct your faults.

4. If a triangle is equiangular, then it is equilateral.

5. If points lie on the same line, then they are collinear. TRUE

 If points are not collinear, then they do not lie on the same line. TRUE

 If points do not lie on the same line, then they are not collinear. TRUE

6. If a ray divides an angle into two congruent angles, then the ray bisects the angle. TRUE

 If a ray does not bisect an angle, then the 2 angles formed are not congruent. TRUE

 If a ray does not divide an angle into two congruent angles, then the ray does not bisects the angle. TRUE

7. No conclusion

8. Dina lives to eat.; Detachment

9. If people live in Manhattan, then they live in the United States.; Syllogism

10. ∠2 has a measure that is greater than 90°.; Detachment

11. Two angles have the same measure if and only they are congruent.

12. No biconditional

13. If a whole number is a multiple of 5, then its last digit is either a 0 or a 5.

 If a numbers last digit is either a 0 or a 5, then it is a multiple of 5.

14. If you live in Texas, then you live in the largest state in the contiguous United States.

 If you live in the largest state in the contiguous United States, then you live in Texas.