

6th Grade Unit 5: Lesson 22-2

Check Your Understanding (p. 286):

10. Check students' drawings.
11. Check students' drawings.
12. Not possible since all the angles in an equilateral triangle are acute.
13. 95° : $180 - (35 + 50) = 95$

Lesson 22-2 Practice (p. 286):

14. Check students' drawings.
15. Check students' drawings.
16. Check students' drawings.
17. Check students' drawings.
18. Check students' drawings.
19. Not possible since all the angles in an equilateral triangle are acute.
20. Check students' drawings.
21. 50°
22.
 - a. 60° : acute, equilateral
 - b. 90° : right; isosceles
 - c. 105° : obtuse, scalene
23.
 - a. Sometimes true. The acute angles of an isosceles *right* triangle are complementary.
 - b. Sometimes true. When an isosceles triangle is also equilateral it will have three equal sides. When it is not equilateral, it will have two equal sides.
 - c. Never true. Equilateral triangles are equiangular and you cannot have three right angles in a triangle.
 - d. Never true. The largest angle is always opposite the largest side.