

7.3 Extension Practice Answers

1. $x = 102$; obtuse, scalene
2. $x = 60$; equiangular, equilateral, acute
3. $x = 28$; isosceles, obtuse
4. $x = 12$; right, scalene
5. $x = 45$; right, isosceles
6. $x = 22.5$; isosceles, obtuse
7. yes
8. no; 24.9° , 121.4° , 33.7°
9. **a.** 60° , 60° , 60°
 - b.** equiangular, equilateral, acute
 - c.** *Sample answer:* 110° , 35° , 35° ; isosceles, obtuse
 - d.** *Sample answer:* 40° , 70° , 70° ; isosceles, acute
 - e.** Two of its angles are equal.