

- 1) $x = 91$; obtuse scalene triangle
- 2) $x = 75$; acute scalene triangle
- 3) $x = 90$; right scalene triangle
- 4) $x = 94$; obtuse scalene triangle
- 5) $x = 48$; acute isosceles triangle
- 6) $x = 60$; equiangular equilateral triangle
- 7) yes ($76.2 + 81.7 + 22.1 = 180^\circ$)
- 8) no; first angle should be 39.5°
- 9) no, first angle should be $28\frac{2}{3}^\circ$
- 10) yes (they add to 180°)
- 11) $x = 67.5$; acute isosceles triangle
- 12) $x = 60$; equiangular equilateral triangle
- 13) $x = 24$; obtuse isosceles triangle
- 14) $x = 25$; the measure of the angles are 25° and 65° ;
right scalene triangle
- 15) $x = 35$; the measure of the angles are 35° , 45° , and 100° ;
obtuse scalene triangle