

## 5.2 Geometry: Triangles

In this worksheet, we will practice identifying triangles based on their angle and side characteristics. Additionally, we will find the missing side lengths and angle measures. If you would like to review the basics, links to video descriptions can be found at the end of this worksheet. Starred problems have video solutions.

- 1 Classify the triangle based on side lengths and angle measures.

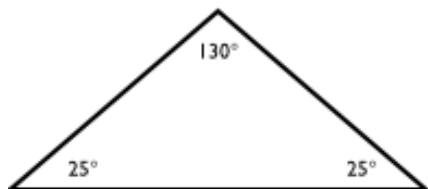


Figure 5.2.1

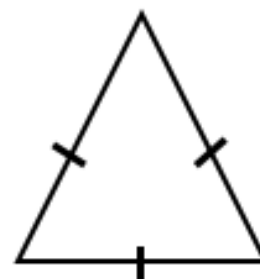


Figure 5.2.2

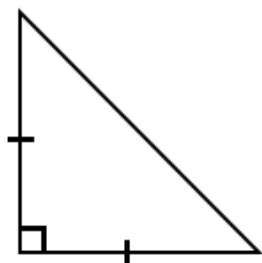


Figure 5.2.3

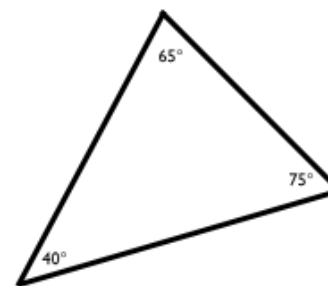


Figure 5.2.4

- 2 True or False: A triangle can be both a right triangle and a equilateral triangle.
- 3 True or False: An isoceses triangle can be obtuse.
- 4 True or False: All triangles have at least two acute angles.

5 True or False: If all angles of a triangle have equal measure, then all sides must also be equal in length.

6 Find the missing side  $x$ , given perimeter  $p$ .

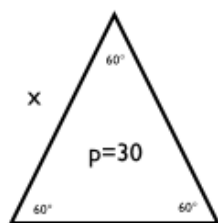


Figure 5.2.5

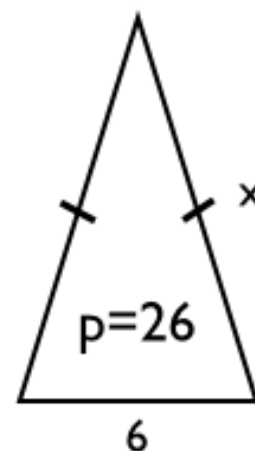


Figure 5.2.6

7 Find the missing angle  $x$ .

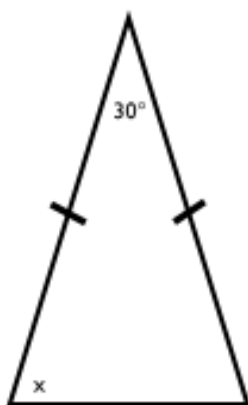


Figure 5.2.7

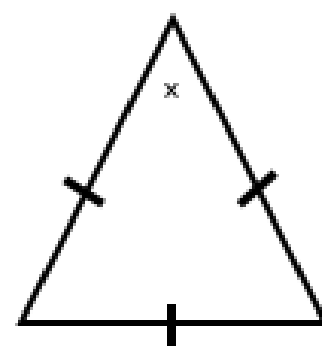


Figure 5.2.8

Additional Resources:

- For review on triangle types and properties: <http://youtu.be/D51Z3thuEeA>
- Worked out examples that are not on this worksheet:
  1. <http://youtu.be/NRS2ZJVvzOI>
  2. <http://youtu.be/PiQxA907Rd8>

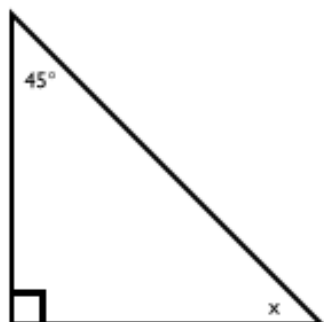


Figure 5.2.9

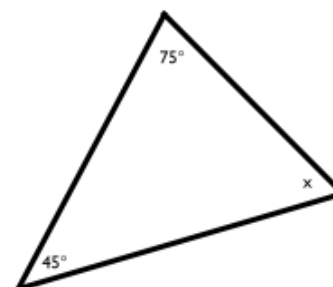


Figure 5.2.10