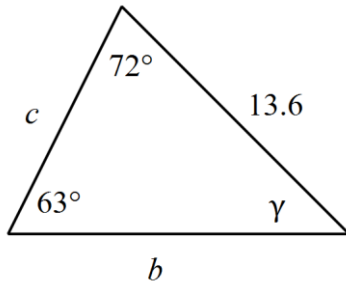


Precalculus 6.4 Homework

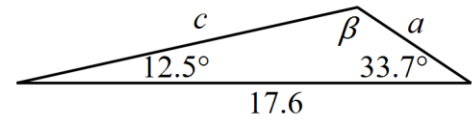
Name \_\_\_\_\_ Date \_\_\_\_\_ Per \_\_\_\_\_

Solve each triangle. Round approximate answers to the nearest tenth.

1.



2.



Draw and label a triangle with the given parts. Then solve the triangle. Round approximate answers to the nearest tenth.

3.  $\alpha = 10.6^\circ$ ,  $\gamma = 137.3^\circ$ ,  $c = 45.9$

4.  $\beta = 119.8^\circ$ ,  $\gamma = 16.2^\circ$ ,  $a = 154.7$

**Determine the number of triangles with the given parts. If it is possible to draw one or more triangles with the given parts, solve them. Round approximate answers to the nearest tenth.**

5.  $\alpha = 37.4^\circ$ ,  $b = 21.5$ ,  $a = 8.7$

6.  $\beta = 43.1^\circ$ ,  $c = 6.8$ ,  $b = 7.9$

7.  $\gamma = 132.2^\circ$ ,  $a = 14.6$ ,  $c = 28.3$

8.  $\beta = 117.9^\circ$ ,  $b = 9.5$ ,  $a = 13.6$

9.  $\gamma = 25.3^\circ$ ,  $c = 47.5$ ,  $b = 71.0$

10.  $\alpha = 64.8^\circ$ ,  $c = 3.1$ ,  $a = 7.3$

