



Name: _____

Date Started: _____ Date Finished: _____ Score: _____

Learning Activity Sheet
Law of Cosines

Answer the questions below.

1. In $\triangle GHI$, $g = 9$ cm, $i = 7$ cm, and $m\angle H = 30^\circ$. Find the value of h .

2. In $\triangle ABC$, $AB = 6.7$ cm, $BC = 3.8$ cm, and $AC = 5.3$ cm. Find the size of the smallest angle.

3. In $\triangle PQR$, $PQ = 7.8$ cm, $QR = 9.1$ cm, and $PR = 4.9$ cm. Find the size of the largest angle.



4. The figure shows a quadrilateral with the dimensions as shown on the right. Find the value of (a) the value of a and (b) the value of θ .

5. State the given conditions when the Law of Sines can be used to solve a triangle.

6. State the given conditions when the Law of Cosines can be used to solve a triangle.