Lesson 2 Assignment

The Cosine Law

Work slowly and carefully. If you are having difficulty, go back and review the appropriate *Lesson*.

For full marks, show all calculations, steps, and/or explain your answers.

Total: 14 marks.

1. Evaluate each cosine ratio. Express the answer to four decimal places.

   a. $\cos 18°$
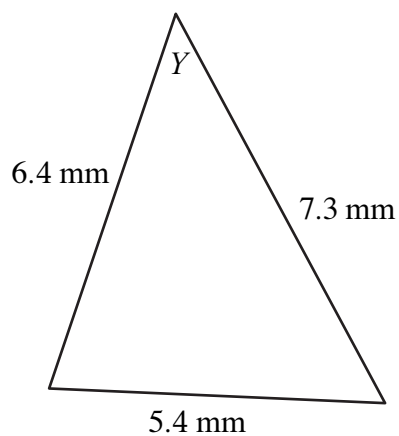
   b. $\cos 110°$

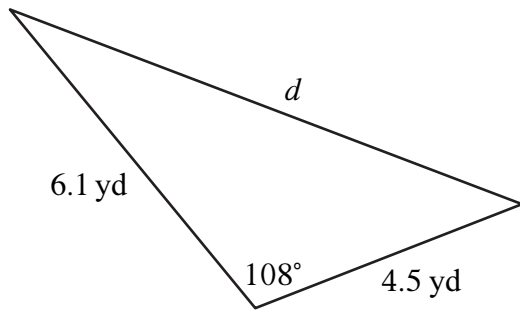2. Use the cosine ratio to determine each angle measure. Express the answer to the nearest degree.

   a. $\cos C = 0.4795$

   b. $\cos B = -0.7308$
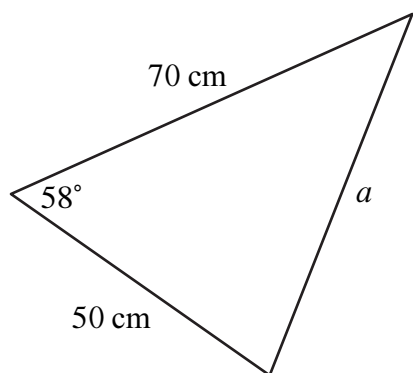
③   3.   Use the cosine law to find $\angle Y$ to the nearest degree

6.4 mm

7.3 mm

5.4 mm

(3)   4.   Find side length d using the cosine law. Express the answer to 1 decimal place.

③   5.   Find side length a using the cosine law. Express the answer to the nearest tenth.

70 cm

58°

a

50 cm

③   6.   Use the cosine law to find $\angle G$ to the nearest degree.

4.5 km

3.3 km

2.4 km

G