The Cosine Law: Explore the Math, p437

Date: _____

By following the instructions on pp. 437-38 and using the figures (Fig. 1 to 5; below) and table provided, complete Parts D, F, H, I, J and K.

Triangle (Fig.)	a	b	c	Angle C	c^2	$a^2 + b^2$	$a^2 + b^2 – c^2$	2ab(cos C)
1								
2								
3								
4								
5								

Figures (1 to 5)

Fig. 1

$a = 5.21$ cm
$b = 4.63$ cm
$c = 6.97$ cm

$m\angle BCA = 90.00°$

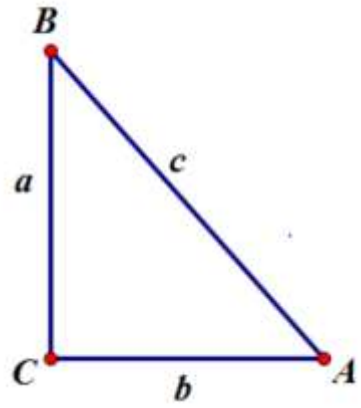

Fig. 2

$a = 6.36$ cm
$b = 8.28$ cm
$c = 6.97$ cm

$m\angle BCA = 54.99°$

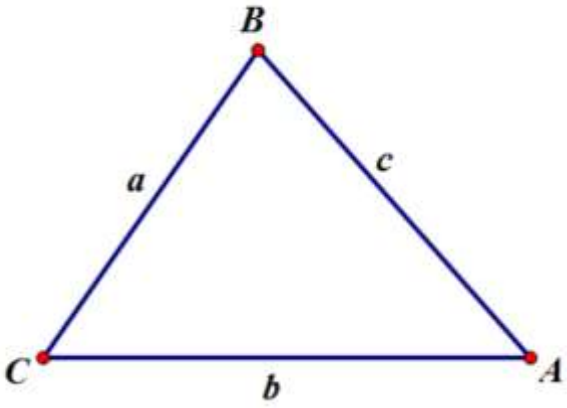

Fig. 3

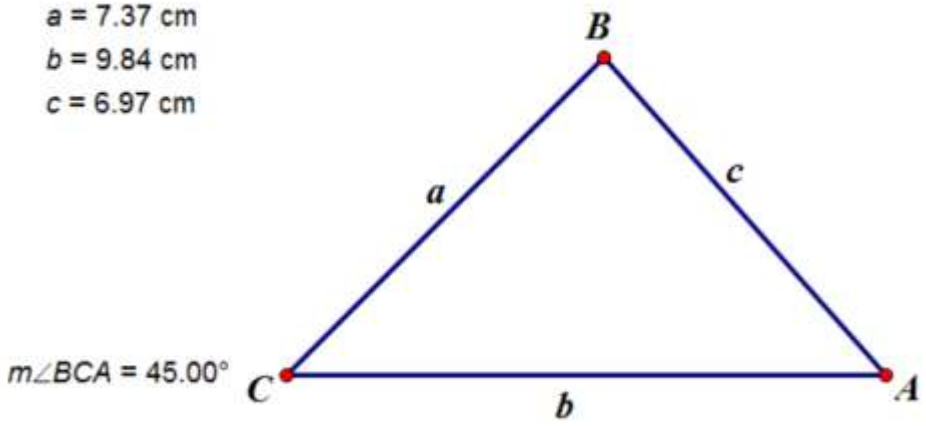

Fig. 4

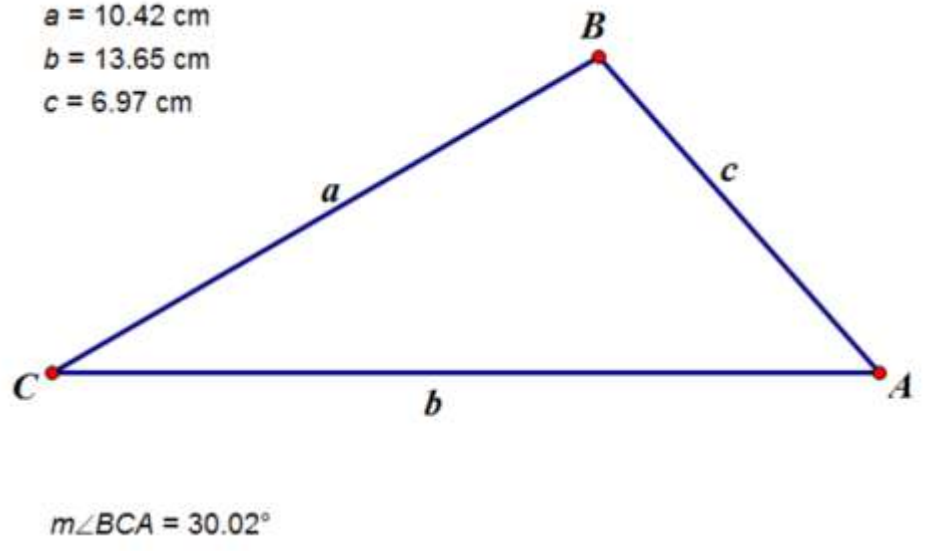

Fig. 5