

Name: _____

Law of Cosines

1) Solve each of the following triangles ABC:

1) $a = 4.5$, $b = 7.30$, $c = 9.98$

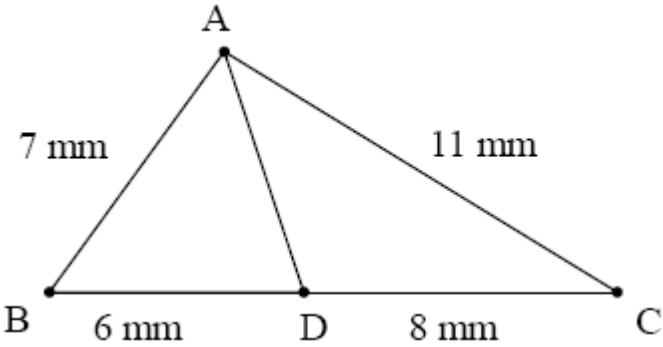
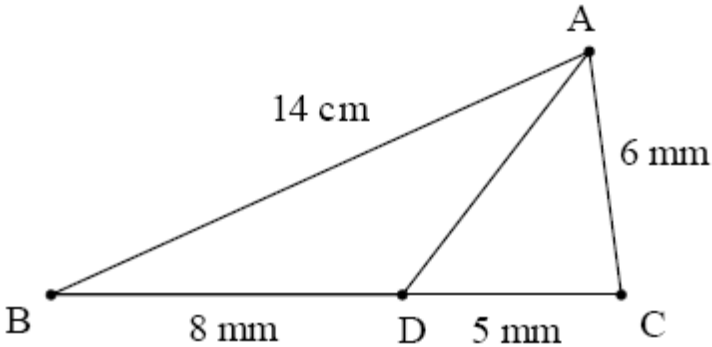
2) $a = 320$, $c = 475$, $B = 35^\circ 20'$

3) $A = 30^\circ$, $a = 3.0$, and $c = 5.0$

4) $A = 30^\circ$, $a = 3.0$, and $c = 6.0$

5) $A = 46^\circ$, $b = 32 \text{ cm}$, and $c = 53 \text{ cm}$

2) Find the length of AD.

1.	
2.	

3) A plane is to fly from Sharjah to Abu Dhabi, a distance of 200km. The plane flies 20 km on a course that is 11° off its correct heading before the pilot discovers the error. By what angle θ must he now change course in order to head for Abu Dhabi