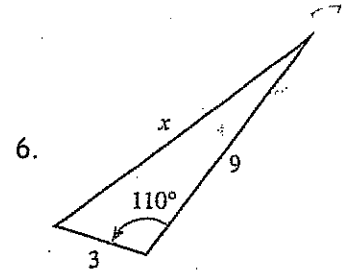
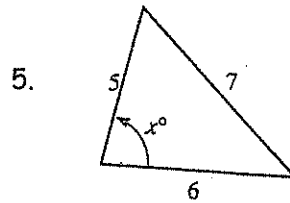
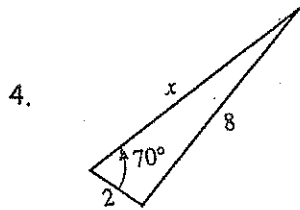
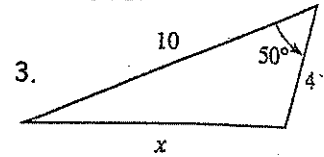
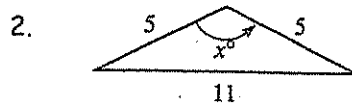
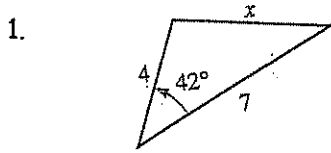


Accel Math III Practice Worksheet #3: Law of Cosine
 Unit #7: Extended Trigonometry
 MA3A6 d

Name _____

Part I

Use the Law of Cosines to write an equation involving the missing side or angle. DO NOT SOLVE.



Examples. Solve for the specific part of each triangle. Give angles to nearest tenth of a degree and lengths to three significant digits.

1. $b = 10, c = 14, \angle A = 54^\circ$ find a

2. $a = 30, c = 37, \angle B = 102.6^\circ$ find b

3. $b = 12, c = 10, \angle A = 38^\circ$ find a

4. $a = 4, b = 3, c = 6$ find $\angle C$

5. $a = 2, b = 3, \angle C = 60^\circ$ find c

6. $a = 14, b = 15, c = 18$ find $\angle A$

7. $a = 18, b = 29, c = 16$ largest angle _____ smallest angle _____

8. Middleton is 8 km east of Mandra and Deerfield is 10 km northwest of Mandra. How far is Middleton from Deerfield?

