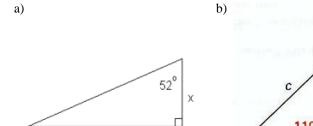
Name: ______ Due: Wednesday, March 21, 2018

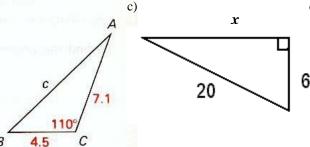
INSTRUCTIONS: <u>ALL</u> work must be shown for each question on looseleaf. Staple this sheet to the front of your work.

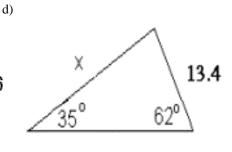
Make sure you label unknown sides and angles properly. Put a box around your solutions.

You <u>must</u> include a detailed sketch (labels and measurements) for each word problem. You can use your books/notes but it is to be done individually!

1. Find the **unknown side** in each of the following...







[8]

[6]

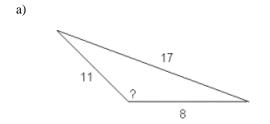
[10]

[3]

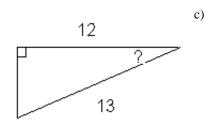
[4]

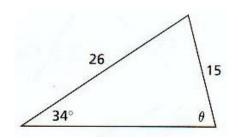
[4]

2. Find the unknown angle in each of the following...



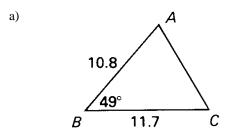
14



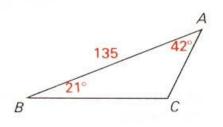


3. SOLVE (find ALL unknown sides and angles) each of the following...

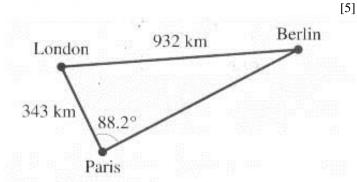
b)







4. Find the **distance from Paris to Berlin** in the following diagram...



- 5. A MVHS hockey game is to be decided by a penalty shot. The puck is shot from a point 10 m from one post and 12 m from the other post. The posts are 2.5 m apart. **Within what angle** must the puck be shot for it to go between the posts?
- 6. Moncton, Shediac and Sackville form the vertices of a triangle on a map. If Moncton and Shediac are 32 km apart, and the angles at Moncton and Shediac are 58° and 72° respectively, **how far is Moncton from Sackville**?
- 7. A forest ranger in a tower 128.0 m high sights two fires in the same line of sight with angles of depression 42° and 61°. **How far apart are the fires**?