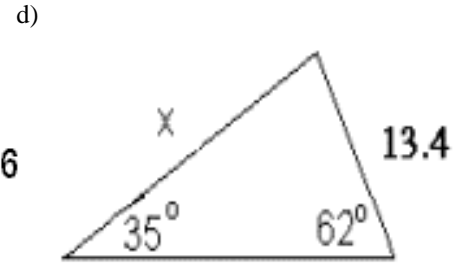
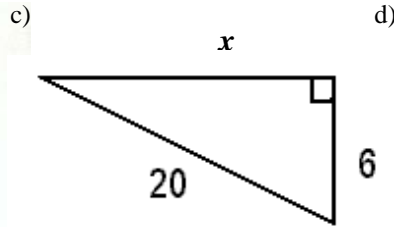
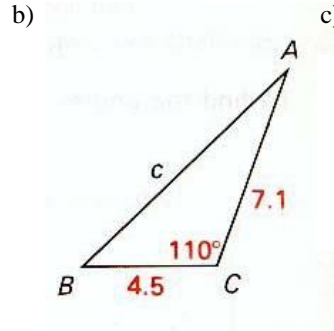
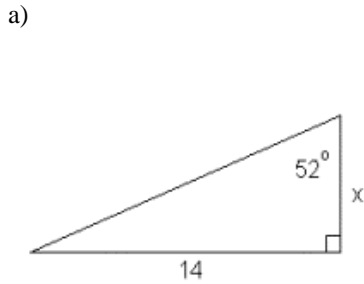


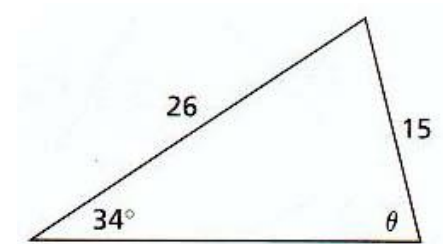
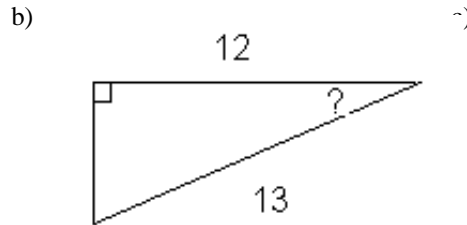
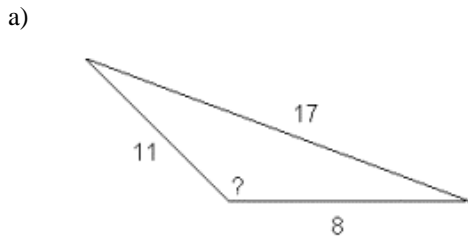
Foundations of Math 11

Review – Primary Trig Ratios & Law of Sines/Cosines

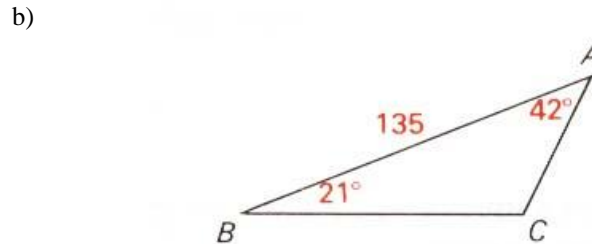
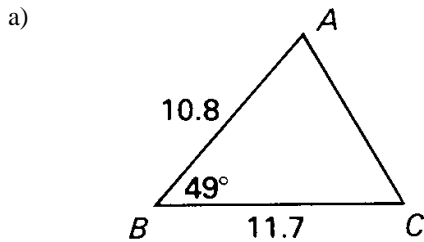
1. Find the **unknown side** in each of the following...



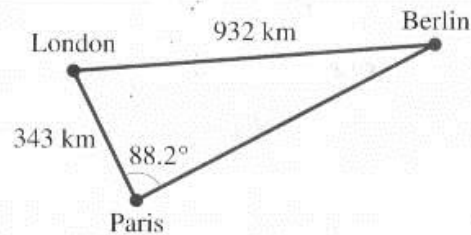
2. Find the **unknown angle** in each of the following...



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



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?**

SOLUTIONS...

1. a) 10.9 b) 9.62 c) 19.1 d) 20.63

2. a) 126° b) 23° c) 76°

3. a) $b = 9.37$; $\angle A = 71^\circ$; $\angle C = 60^\circ$

4. 877.3 km 5. 7.9°

6. 39.7 km

7. 71.21 m

b) $\angle C = 117^\circ$; $a = 101.4$; $b = 54.3$