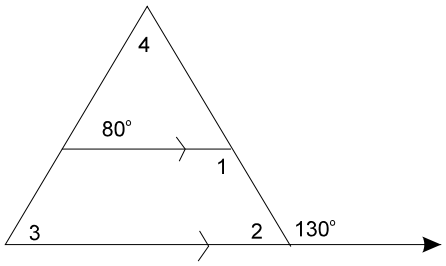
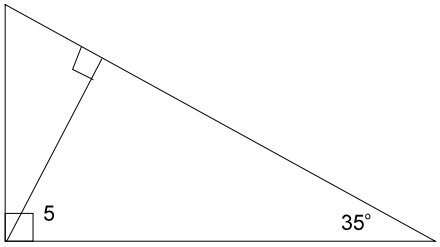
GEOMETRY 10: SUMMARY

1. In the drawings shown below, determine the measure of the indicated angles and give a reason for your answers. Do not use a protractor.





a. ∠1 _____

b. ∠2 _____

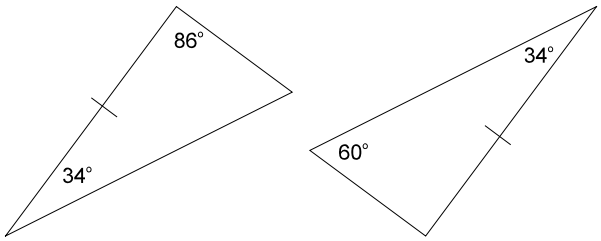
c. ∠3 _____

d. ∠4 _____

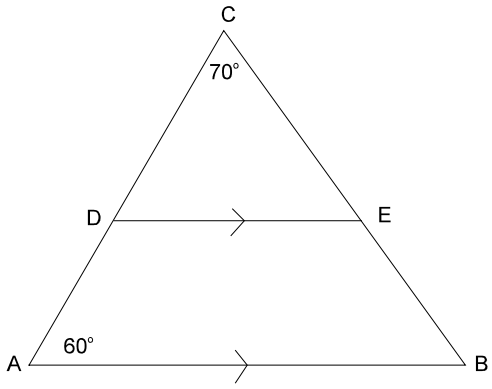
e. ∠5 _____

2. Draw a circle with a diameter of 8 cm.

3. Are the two triangles in the drawing congruent? If so, state the theorem that applies.



4. Are ΔCDE and ΔCAB similar? If so, why? If not, why not?



ANSWER KEY

1. a. $\angle 1 = 130°$, alt. int. angle to 130°

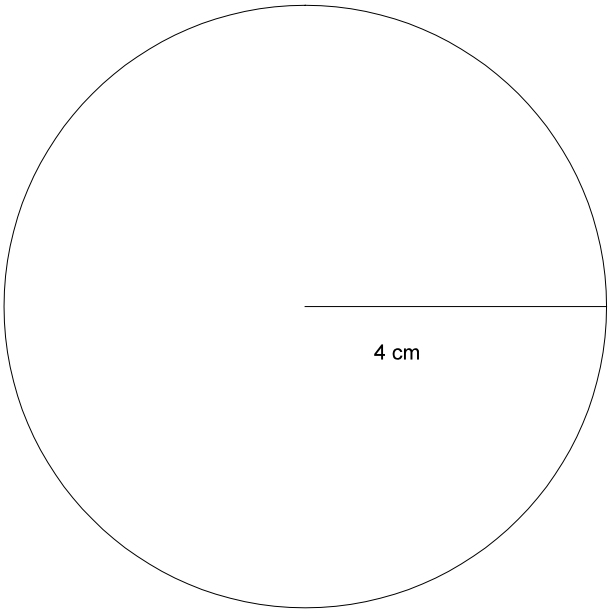
   b. $\angle 2 = 50°$, supplementary to 130°

   c. $\angle 3 = 80°$, corr. angle

   d. $\angle 4 = 50°$ sum of angles = 180°

   e. $\angle 5 = 55°$, complementary angle

2.



3. yes, ASA

4. yes, angles are equal

Source: Government of BC used with permission.