Name: _____ **Date:** _____ **Period:** _____

Angles Practice Assessment (8.G.5)

1. Which angles are supplementary?

   A Corresponding angles

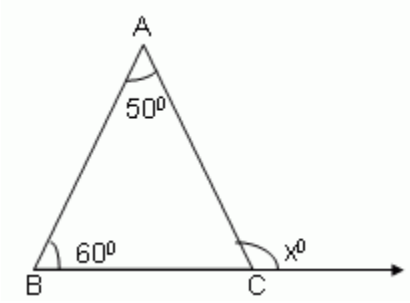
   B Alternate exterior angles

   C Alternate interior angles

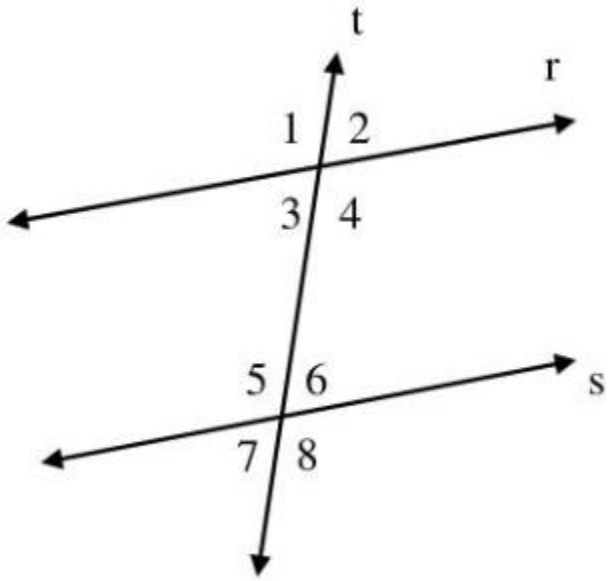
   D Same side interior angles

2. A pair of complementary angles are given as $7x - 28$ and $3x - 12$. What is the value of x?

3. Find the value of x.



Use the diagram below to answer questions 4 – 6. Given that *s* || *r* and t is a transversal.



4. Which of the following pairs are considered alternate interior angles?

   A ∠1 and ∠4 **B** ∠3 and ∠7

   C ∠3 and ∠6 **D** ∠1 and ∠8

5. Which of the following is **not** true?

   A ∠3 + ∠4 = 180° **B** ∠2 ≅ ∠6

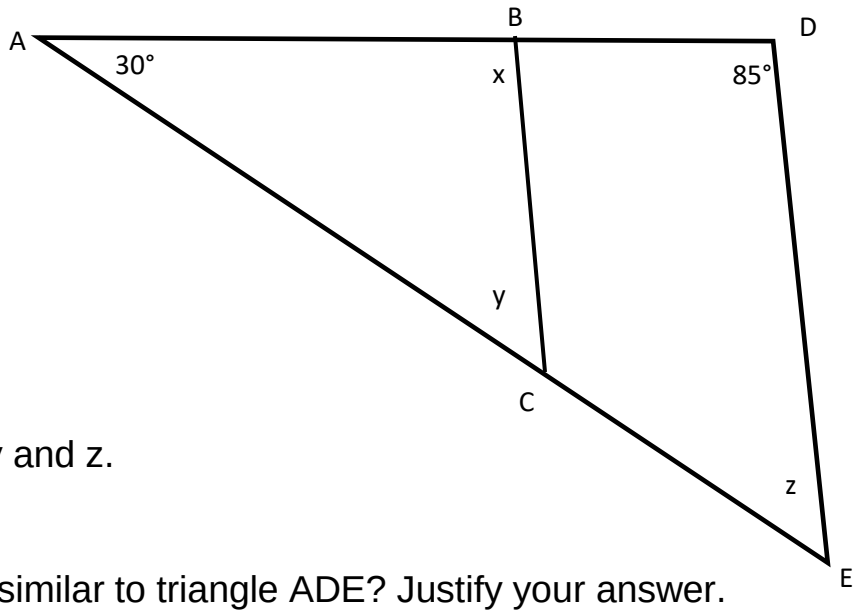
   C ∠5 + ∠2 = 180° **D** ∠1 ≅ ∠5

6. Which of the following will have the same angle measure as ∠1?

   A ∠3 **B** ∠7

   C ∠5 **D** ∠2

7. In the diagram below BC || DE.



Part A Find angles x, y and z.

Part B Is triangle ABC similar to triangle ADE? Justify your answer.

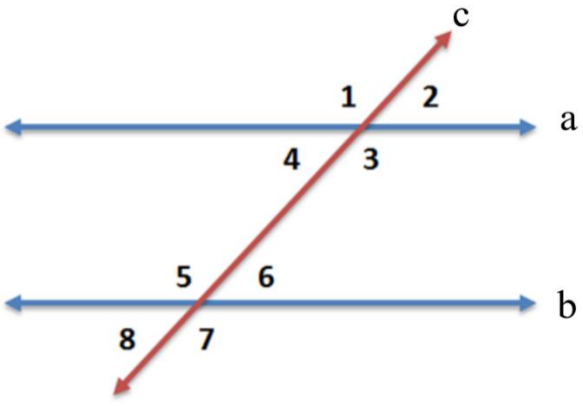
_____

_____

_____

8. In the diagram below *a* || *b* and *c* is a transversal.

Part A Given that ∠4 is given as x + 6 and ∠8 is given as 5x – 34 write an equation to find the value of x.



Part B Find each angle measure and label all the angles in the diagram with their angle measure.