

Homework

p. 196: 1, 2, 3, 4

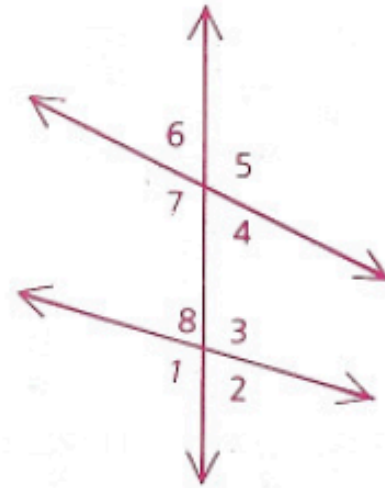
1 a Name all pairs of alternate interior angles.

b Name all pairs of alternate exterior angles.

c Name all pairs of corresponding angles.

d Name all pairs of interior angles on the same side of the transversal.

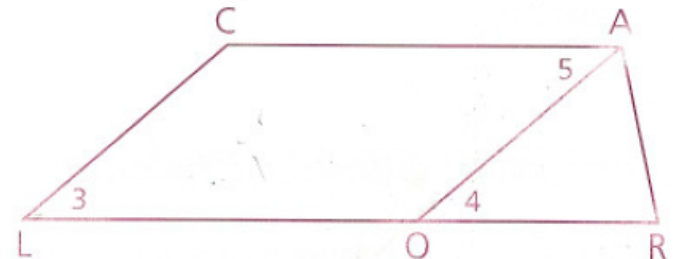
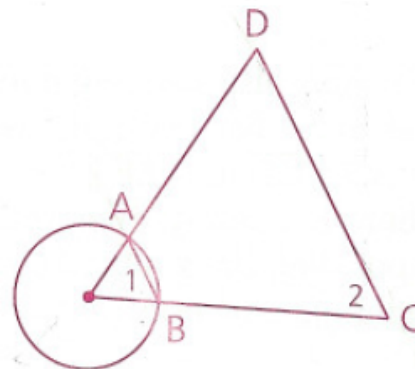
e Name all pairs of exterior angles on the same side of the transversal.



2 a What name is given to $\angle 1$ and $\angle 2$ for \overleftrightarrow{AB} and \overleftrightarrow{CD} ? What is the transversal?

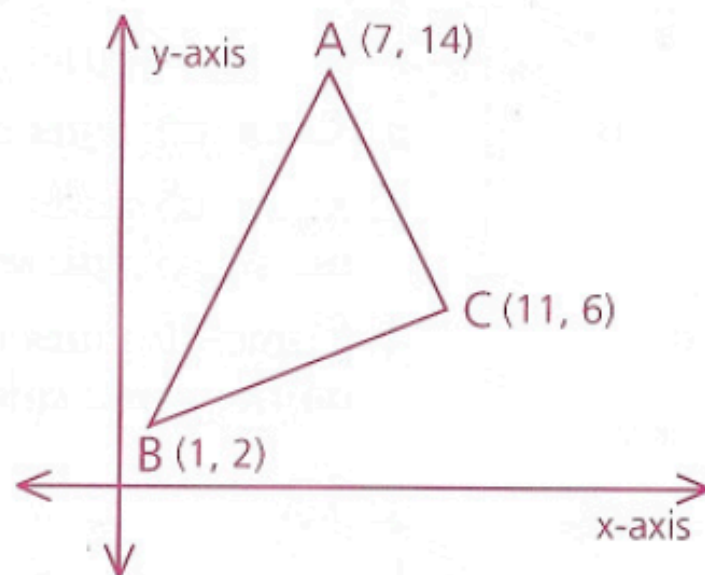
b What type of angles are 3 and 4? Which lines and transversal form them?

c What type of angles are 4 and 5? Which lines and transversal form them?



3 Copy the diagram.

- a** Find the coordinates of M, the mid-point of \overline{AB} .
- b** Find the coordinates of N, the mid-point of \overline{AC} .
- c** Draw \overleftrightarrow{MN} . What appears to be true about \overleftrightarrow{MN} and \overleftrightarrow{BC} ?
- d** What appears to be true about $\angle AMN$ and $\angle ABC$?
- e** Name a pair of corresponding angles formed by \overleftrightarrow{MN} and \overleftrightarrow{BC} with transversal \overleftrightarrow{AC} .



4 a For which pair of lines are angles 1 and 4 a pair of alternate interior angles?

b For which pair of lines are angles 2 and 3 a pair of alternate interior angles?

c How many transversals of \overleftrightarrow{JO} and \overleftrightarrow{KM} are shown?

