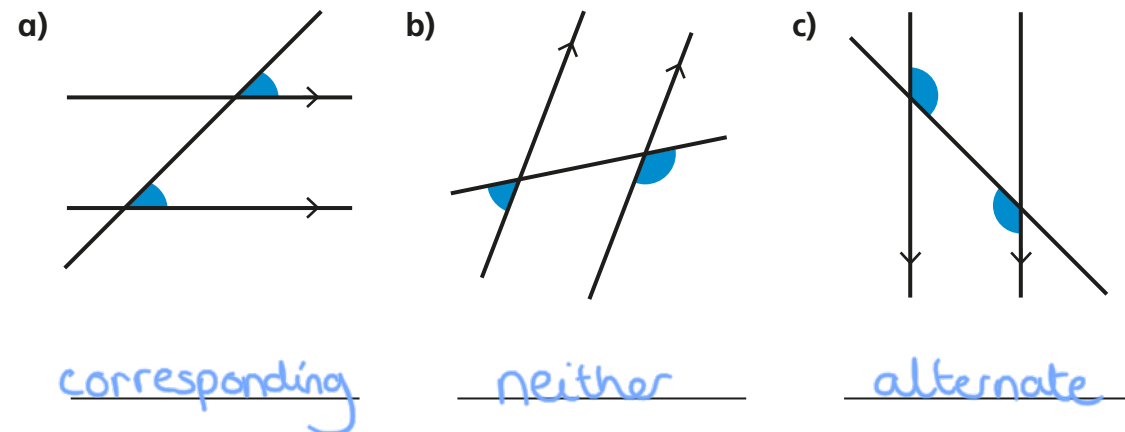
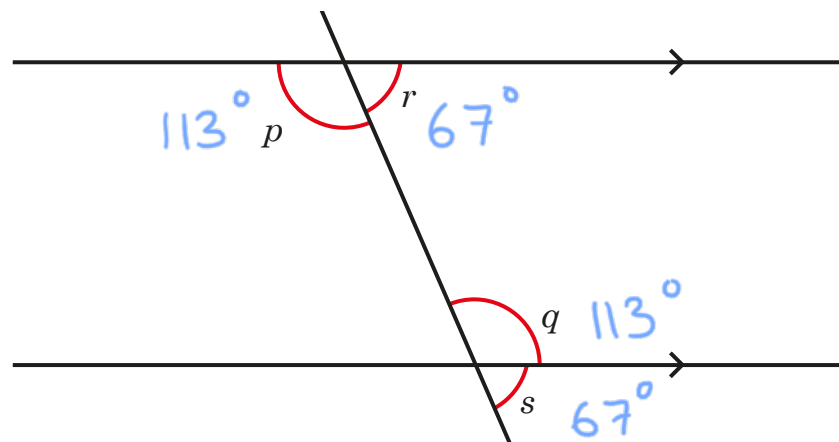


Identify and calculate with alternate and corresponding angles

1 Are the pairs of angles alternate, corresponding or neither?



2 Four angles are labelled on the diagram.



a) p and q are alternate angles. Measure the size of each angle and label them on the diagram.

What do you notice?

b) Complete the sentence.

Alternate angles are equal.

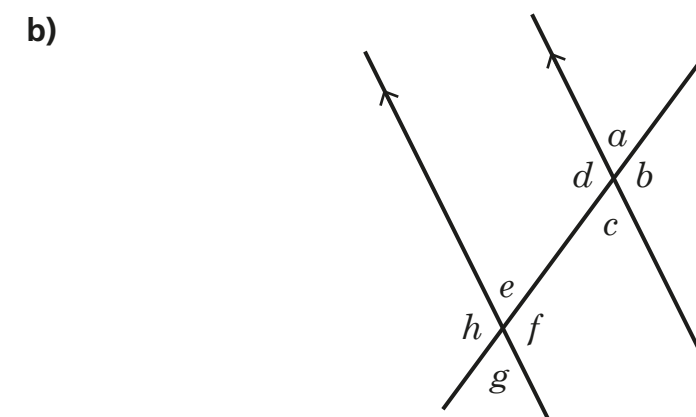
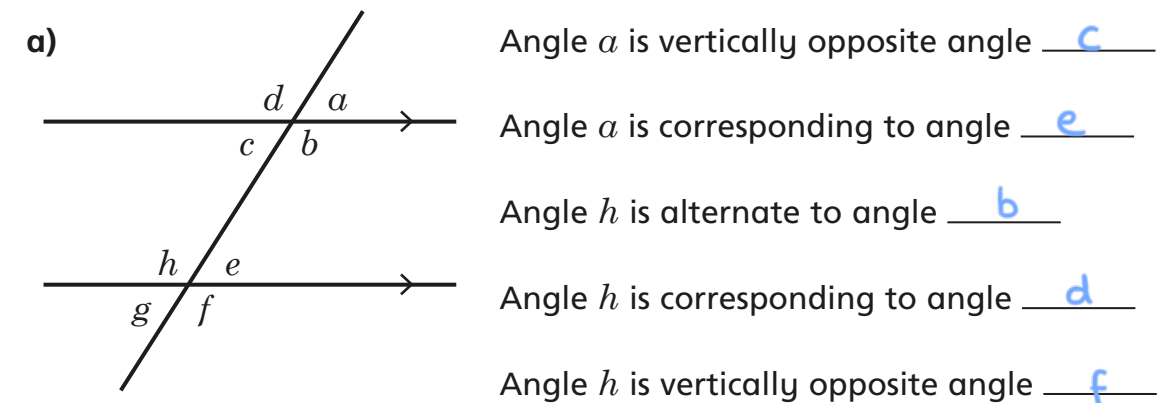
c) r and s are corresponding angles. Measure the size of each angle and label them on the diagram.

What do you notice?

d) Complete the sentence.

Corresponding angles are equal.

3 Complete the sentences.

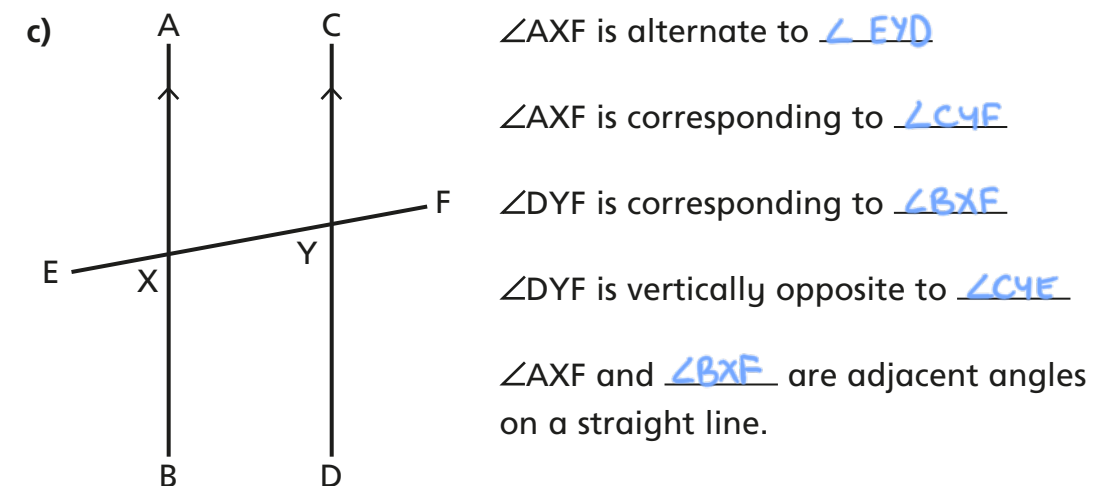


Angles d and c/a are adjacent angles on a straight line.

Angles d and f are alternate angles.

Angles h and d are corresponding angles.

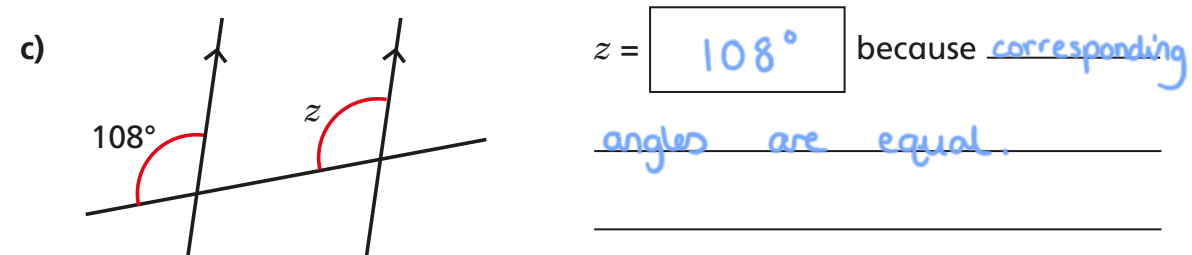
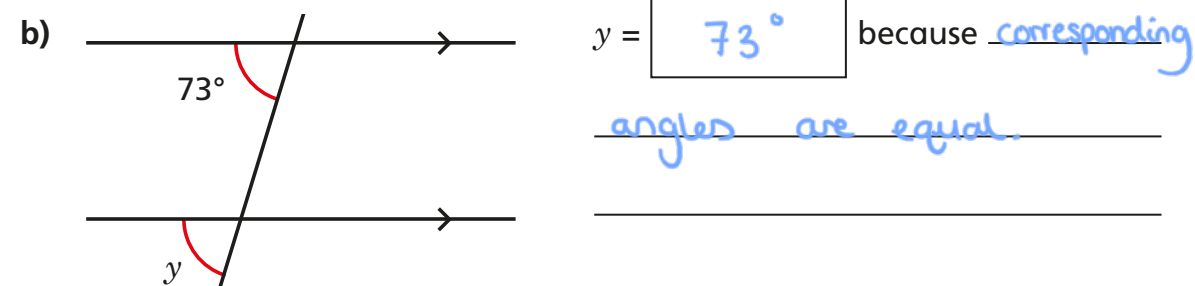
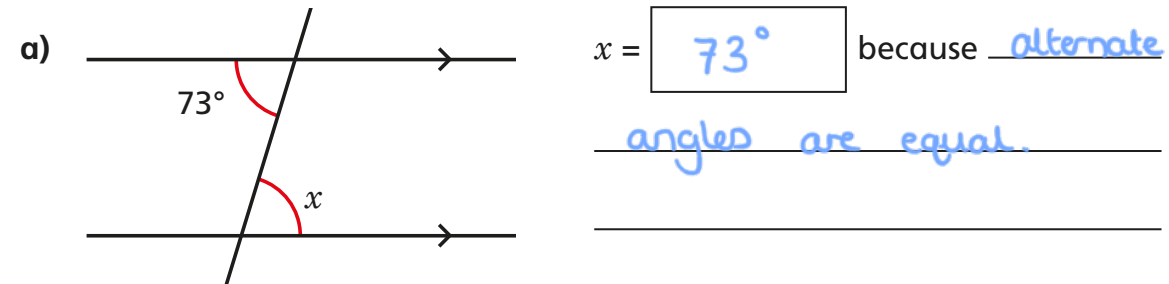
Angles d and b are vertically opposite angles.



4

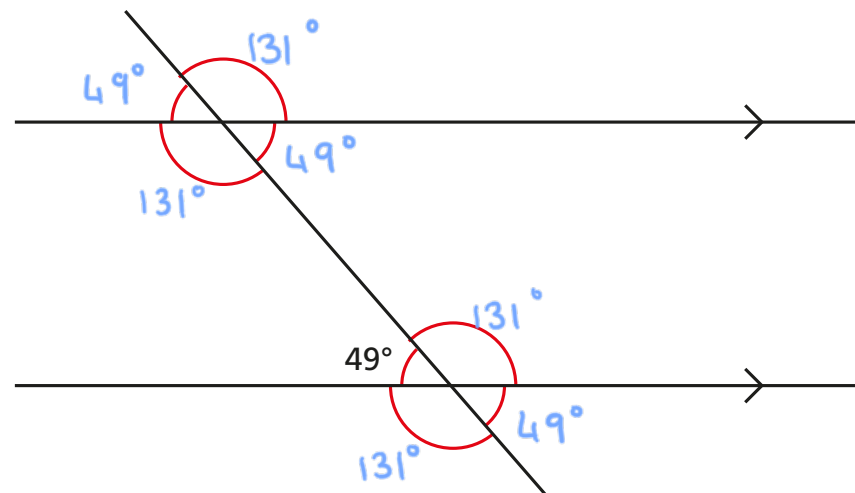
Work out the sizes of the unknown angles.

Give reasons for your answers.



5

Work out the sizes of the unknown angles and label them on the diagram.

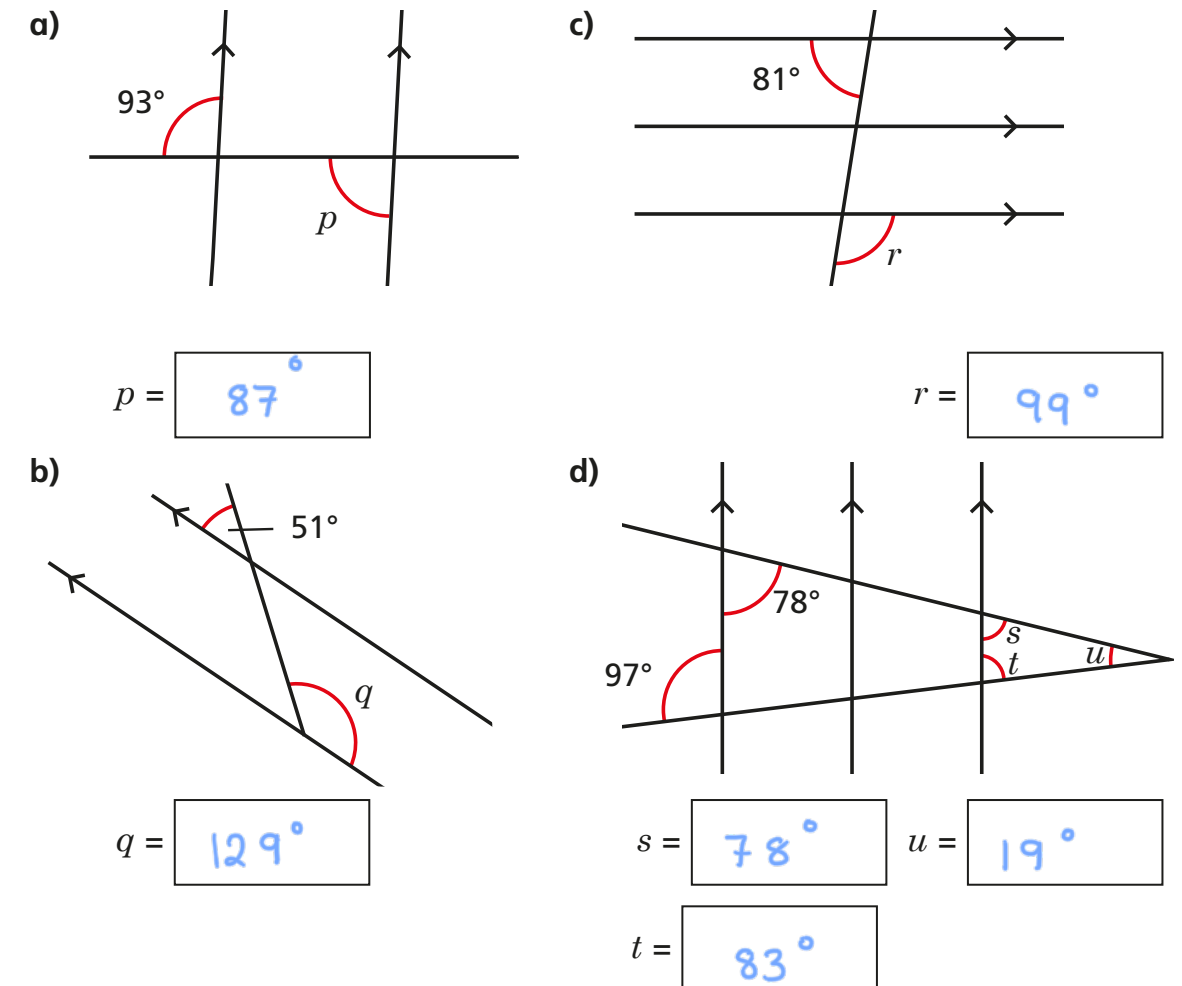


Compare your thinking with a partner.

Did you work them out the same way?

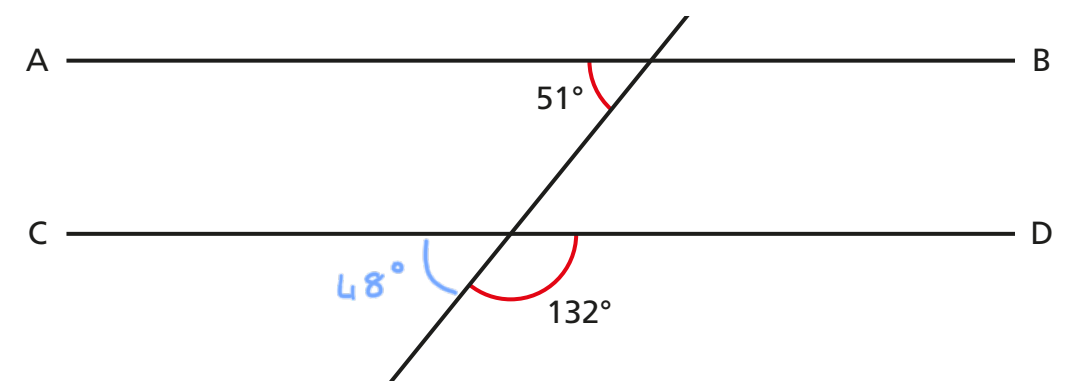
6

Work out the sizes of the unknown angles.



Discuss your reasons with a partner.

7

Are line segments AB and CD parallel? No

Explain your answer.

Corresponding angles in the diagram are not equal
so the line segments are not parallel.