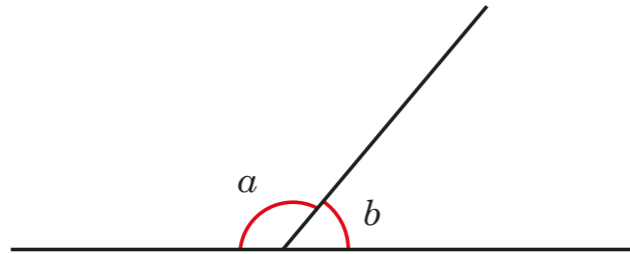


# Understand and use the sum of angles on a straight line

1 Two angles,  $a$  and  $b$ , are adjacent on a straight line.



a) Measure angles  $a$  and  $b$ .

$a =$

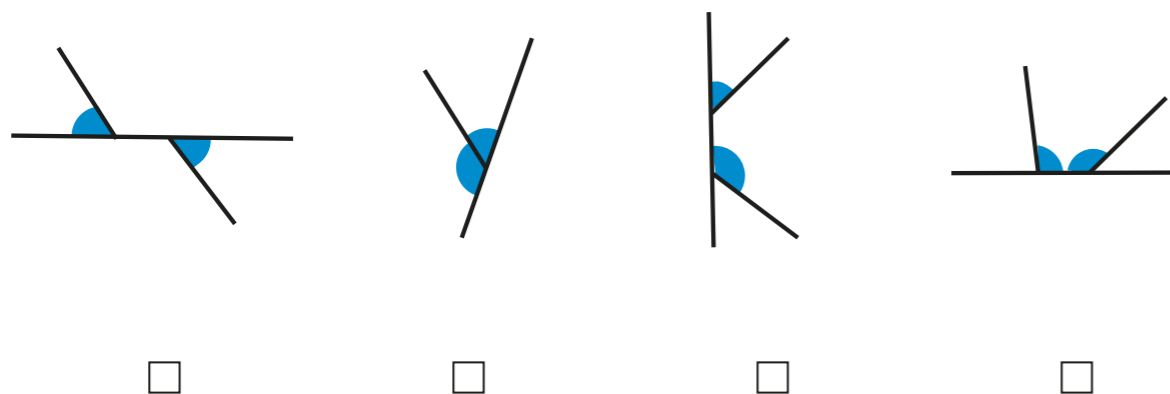
$b =$

b) What is the total of the two angles?

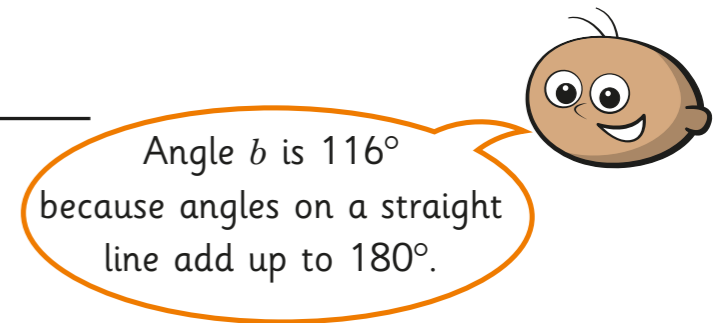
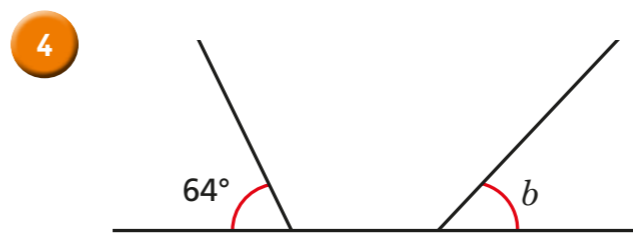
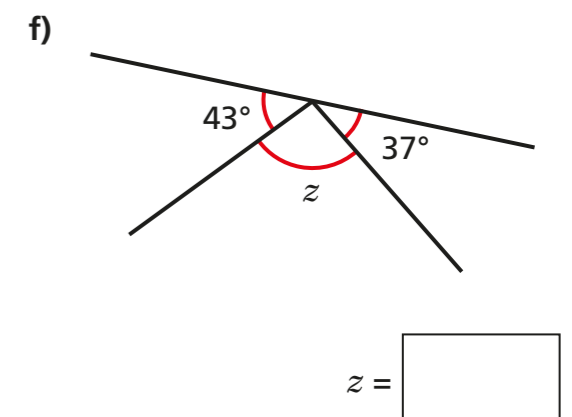
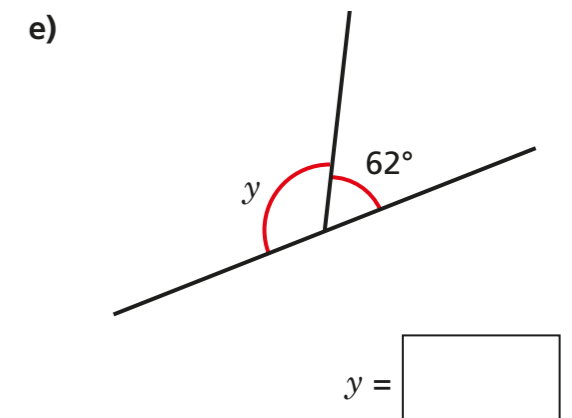
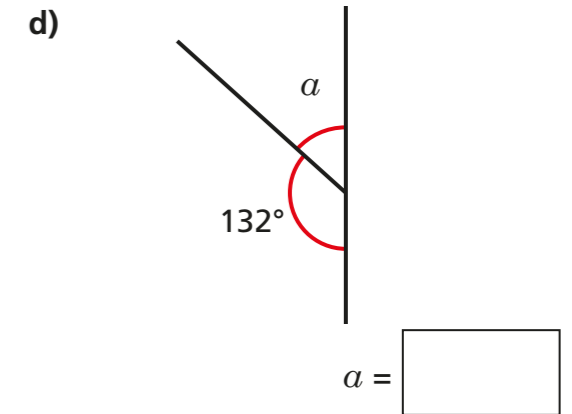
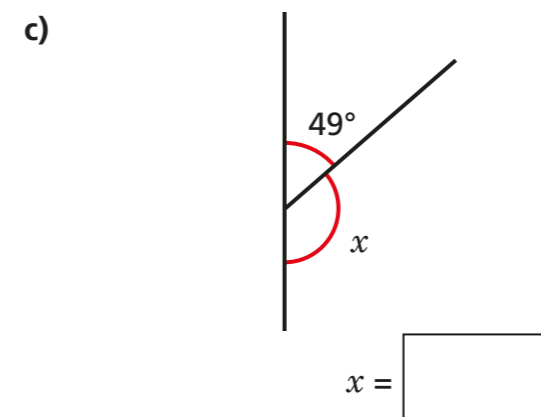
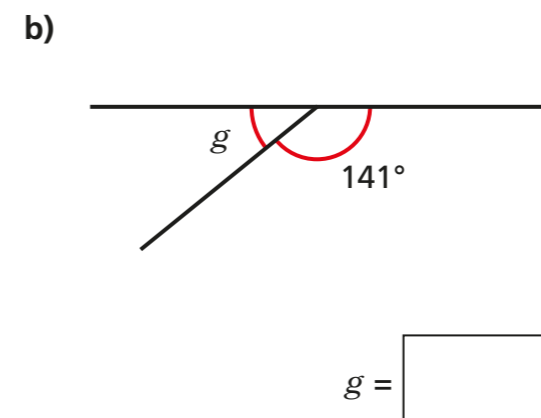
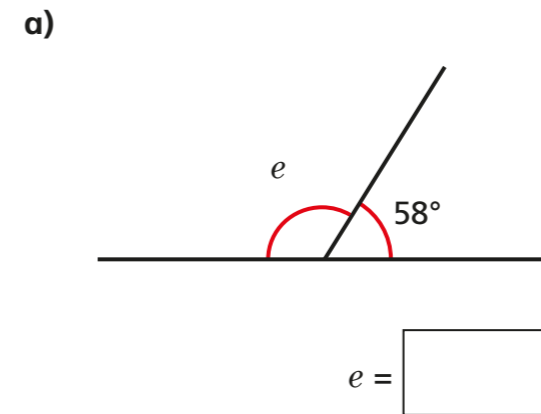
c) Complete the sentence.

Adjacent angles on a straight line \_\_\_\_\_

2 Tick the diagram that shows adjacent angles on a straight line.



3 Work out the unknown angles.

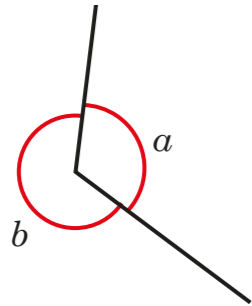


Do you agree with Tommy? \_\_\_\_\_

Explain your answer.

5 Use the information to work out the unknown angles.

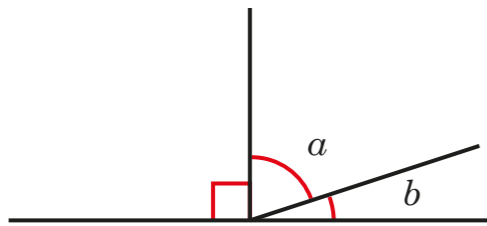
a) Angle  $a$  is half the size of angle  $b$ .



$a =$

$b =$

b) Angle  $a$  is four times the size of angle  $b$ .



$a =$

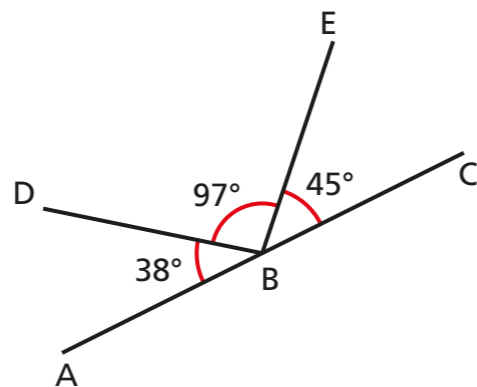
$b =$

6 a) Write the size of the given angles.

ABD

EBC

DBE

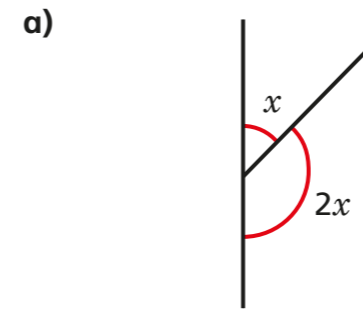


b) Is ABC a straight line? \_\_\_\_\_

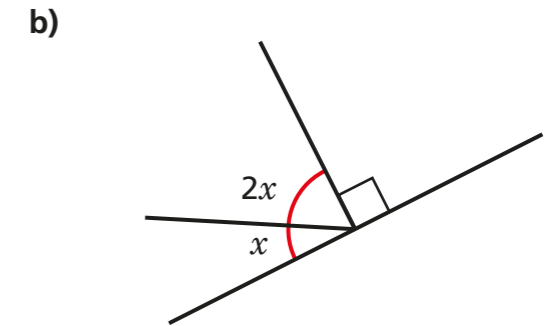
How do you know?



7 Work out the value of  $x$ .



$x =$



$x =$

Compare methods with a partner.

8 AB and CD are straight lines.

Write expressions for the sizes of any missing angles and label them on the diagram.

