

Walking Talking - Angles

1.

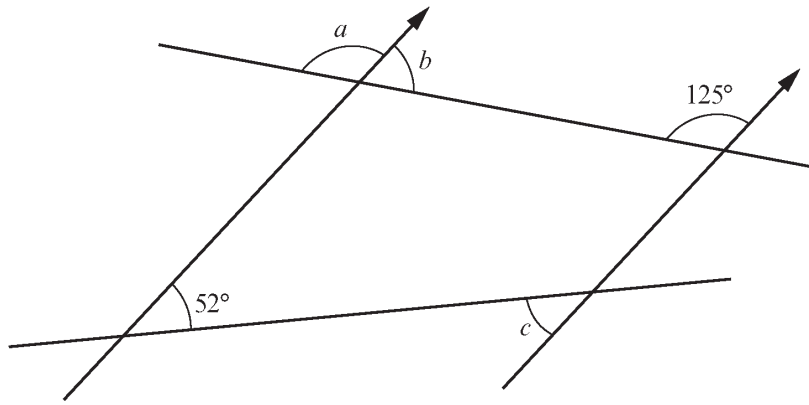


Diagram not drawn to scale

Find the size of each of the angles a , b and c .

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.....

$a = \dots\dots\dots^\circ$ $b = \dots\dots\dots^\circ$ $c = \dots\dots\dots^\circ$

[3]

2.

(a) The diagram shows three parallel paths with a cycle track connecting them.

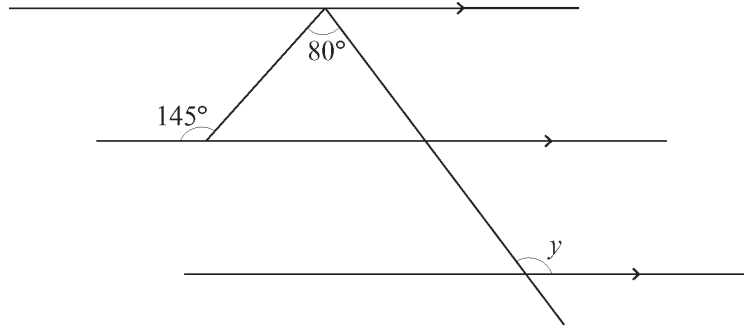


Diagram not drawn to scale

Calculate the size of the angle marked y .

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$y = \dots\dots\dots^\circ$

[2]

(b)

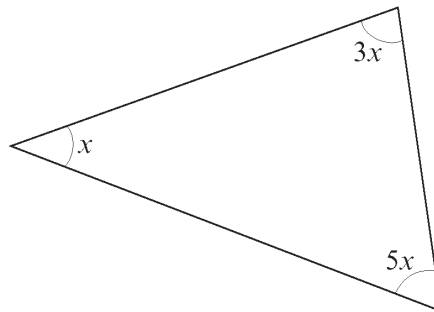


Diagram not drawn to scale

Calculate the size of each of the angles in the triangle.

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[3]

3.

There are two regular polygons, X and Y .
The size of each **exterior** angle in regular polygon X , is 9° .
Each **interior** angle of regular polygon Y is 120° .

Complete the sentences below.

[4]

Regular polygon X has sides.

Regular polygon Y has sides.

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4.

Four of the interior angles of a seven-sided polygon are 114° , 150° , 160° and 170° .
The other three interior angles of this polygon are equal.
Calculate the size of each of the other three interior angles.

[5]

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5.

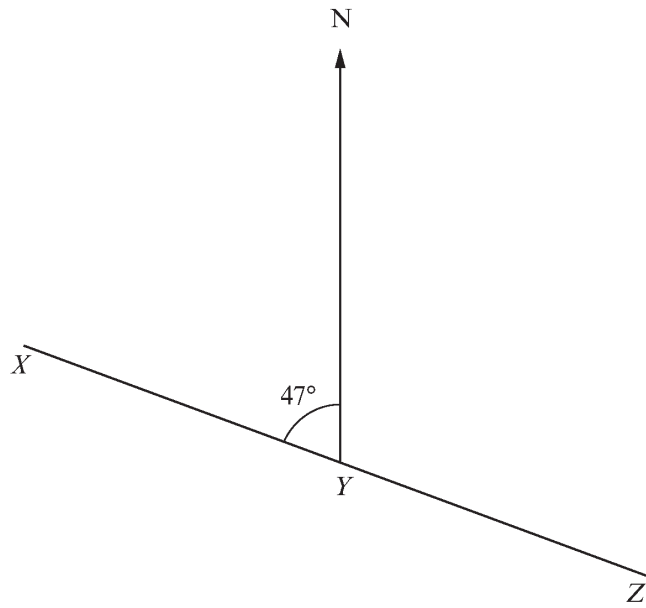


Diagram not drawn to scale

The above diagram shows three points X , Y and Z which lie on a straight line.

Calculate the bearing of

(a) Z from Y ,

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..... [1]

(b) X from Y .

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..... [2]

6.

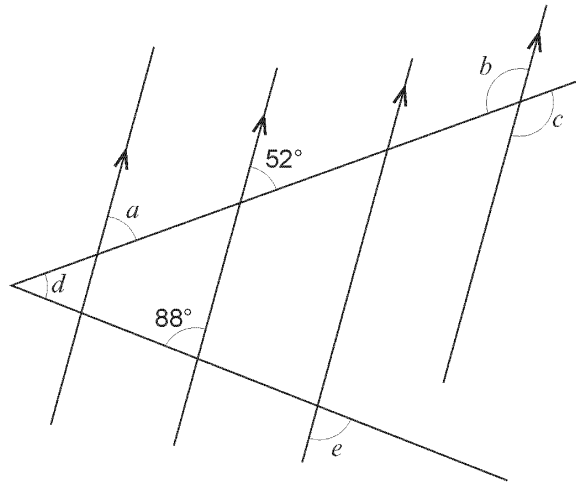


Diagram not drawn to scale

Find the size of each of the angles a , b , c , d and e .

[5]

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$a = \dots\dots\dots^\circ$

$b = \dots\dots\dots^\circ$

$c = \dots\dots\dots^\circ$

$d = \dots\dots\dots^\circ$

$e = \dots\dots\dots^\circ$

7.

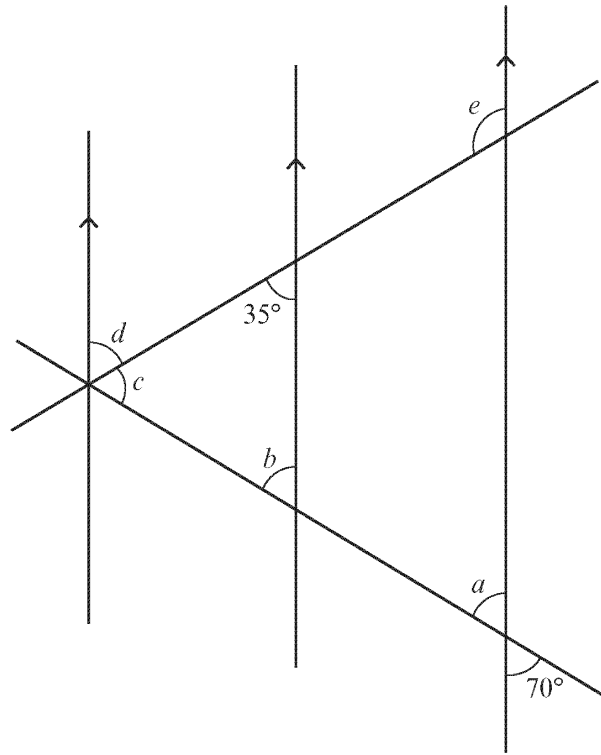


Diagram not drawn to scale

Find the size of the angles marked a , b , c , d and e .

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$a = \dots\dots\dots^\circ$

$b = \dots\dots\dots^\circ$

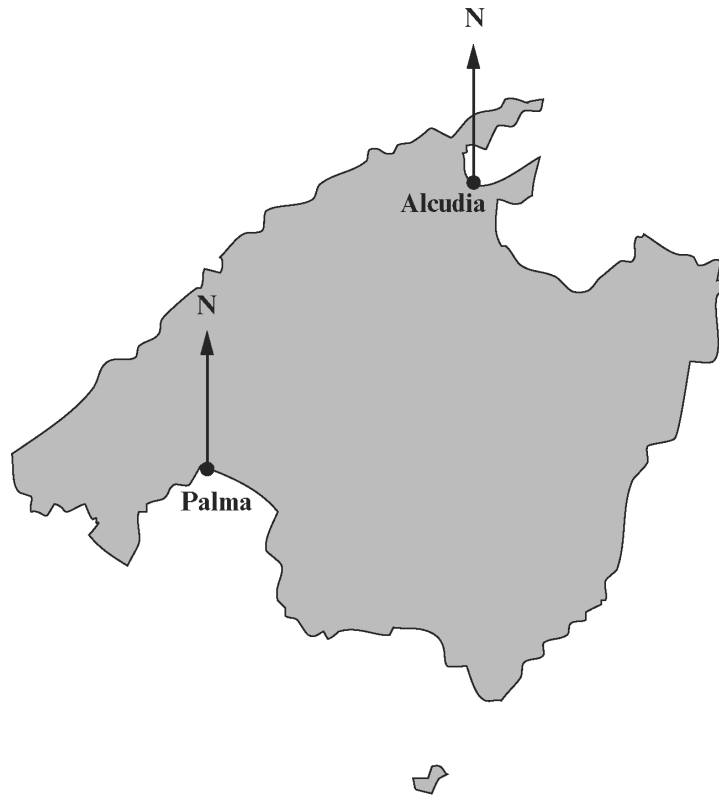
$c = \dots\dots\dots^\circ$

$d = \dots\dots\dots^\circ$

$e = \dots\dots\dots^\circ$

[5]

The map below shows the island of Majorca.



(a) Find the bearing of Palma from Alcudia. ° [1]

(b) Arta is another place on the island of Majorca.
Arta is on a bearing of 073° from Palma and on a bearing of 130° from Alcudia.
Indicate where Arta is on the above map of Majorca. [3]

(c) The distance between Alcudia and Palma is 54 km.

Write down the scale of the map in the form 1 cm: m

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1 cm: m [3]

- (d) A new runway site is being planned for a different island. A diagram of the plan for the runway site is shown below.

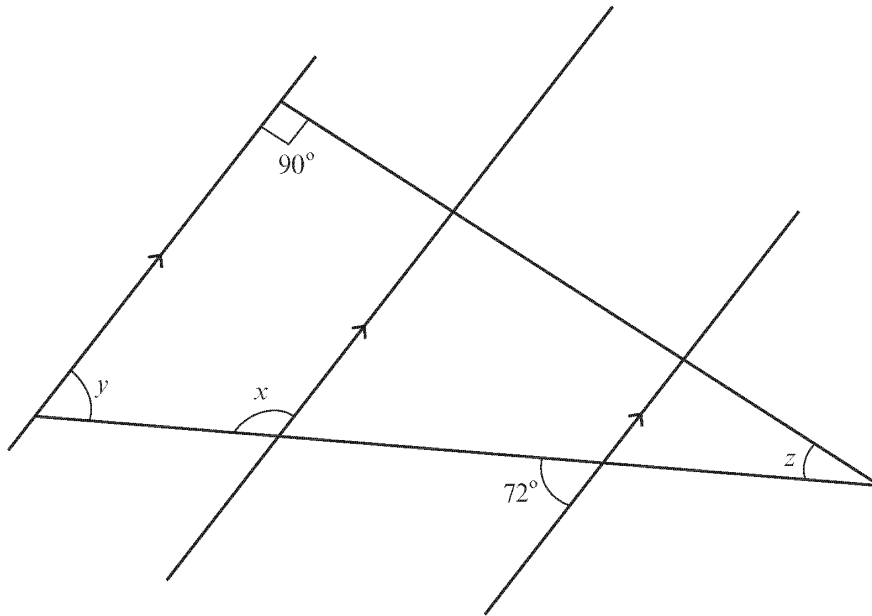


Diagram not drawn to scale

Find the size of the angles x , y and z .

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$x = \dots\dots\dots^\circ$ $y = \dots\dots\dots^\circ$ $z = \dots\dots\dots^\circ$

[4]