



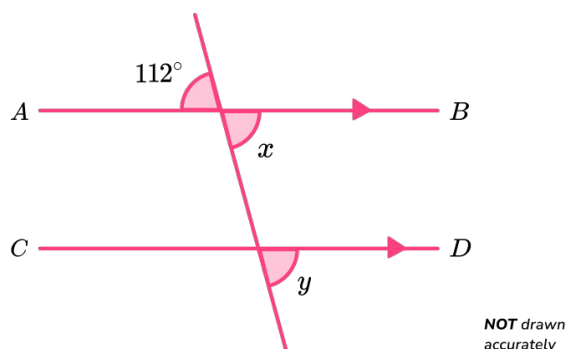
THIRD SPACE
LEARNING

GCSE Exam Questions

Corresponding Angles |
Geometry & Measure

GCSE Exam Questions: Corresponding Angles

- 1) (a) In the diagram below, AB is parallel to line CD



Find the value of x . Give a reason for your answer.

(2)

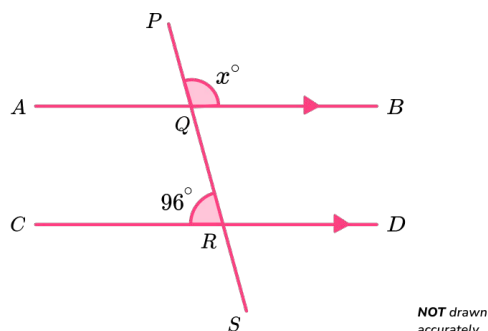
- (b) Find the value of y . Give a reason for your answer.

(2)

(4 marks)

GCSE Exam Questions: Corresponding Angles

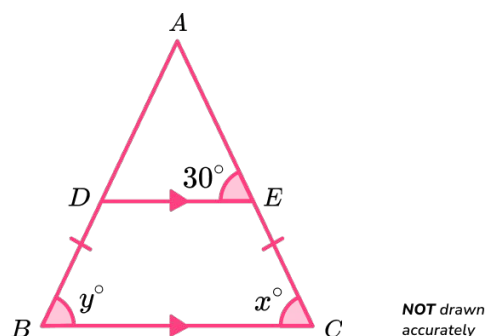
- 2) In the diagram below, AB is parallel to line CD



Find the value of x . Give reasons for your answer.

(4 marks)

- 3) (a) Shown below is an isosceles triangle.



Lines DE and BC are parallel, and $AB = AC$.

- (a) Find the value of x . Give a reason for your answer.

(2)

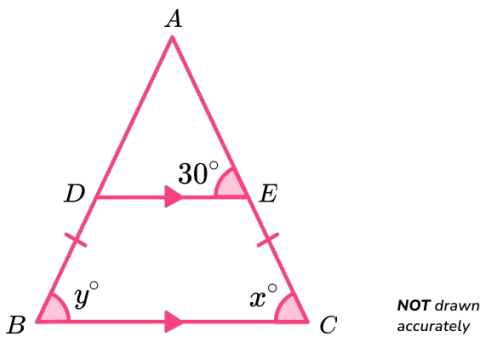
- (b) Find the value of y . Give a reason for your answer.

(2)
(4 marks)

GCSE Exam Questions: Corresponding Angles Answers

	Question	Answer	Marks
1) (a)	In the diagram below, AB is parallel to line CD <div style="text-align: center;"> <p><i>NOT drawn accurately</i></p> </div> <p>Find the value of x. Give a reason for your answer.</p>	(a) $x = 112^\circ$ Vertically opposite angles are equal	(1) (1)
(b)	Find the value of y . Give a reason for your answer.	(b) $y = 112^\circ$ Corresponding angles are equal	(1) (1)
2)	In the diagram below, AB is parallel to line CD <div style="text-align: center;"> <p><i>NOT drawn accurately</i></p> </div> <p>Find the value of x. Give a reason for your answer.</p>	<u>Alternative Method 1</u> Angle BQR = 96° Alternate angles are equal $x = 84^\circ$ Angles on a straight line sum to 180° <u>Alternative Method 2</u> Angle AQR = 84° Co-interior angles are equal $x = 84^\circ$ Vertically opposite angles are equal <u>Alternative Method 3</u> Angle AQP = 96° Corresponding angles are equal $x = 84^\circ$ Angles on a straight line sum to 180°	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)

GCSE Exam Questions: Corresponding Angles Answers

	Question	Answer	Marks
3)	<p>Shown below is an isosceles triangle.</p>  <p>Lines DE and BC are parallel. $AB = AC$</p>		
(a)	<p>Find the value of x. Give a reason for your answer.</p>	<p>(a) $x = 30^\circ$ Corresponding angles are equal</p>	<p>(1) (1)</p>
(b)	<p>Find the value of y. Give a reason for your answer.</p>	<p>(b) $y = 30^\circ$ Base angles in an isosceles triangle are equal</p>	<p>(1) (1)</p>

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