New Maths GCSE: G10 - Circle Theorems - which reason?

Name:.. Date:..

What is the correct name of this circle theorem?

A) 'The angle at the centre is twice the angle at the circumference'

B) 'Opposite angles in a cyclic quadrilateral sum to 180°'

C) 'The angle in a semi-circle is 90°'

D) 'Angles in the same segment are equal'
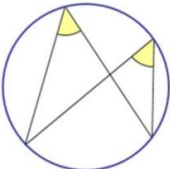
Correct Answer: A B C D

Explanation:

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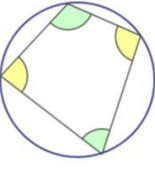
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Explanation:

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Correct Answer: A B C D

Explanation:

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Question 1

What is the correct name of this circle theorem?

A) 'A tangent is perpendicular to a radius'

B) 'Opposite angles in a cyclic quadrilateral sum to 180°'

C) 'Angles in the same segment are equal'

D) 'Angles in alternate segments are equal'

Correct Answer: A B C D

Explanation:

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Question 2

54°   x
O

What is the main circle theorem you would use to find the size of x?

A) 'Opposite angles are equal'

B) 'Angles in the same segment are equal'

C) 'Base angles in an isosceles triangle are equal'

D) 'The angle in a semi-circle is 90°'

Correct Answer: A B C D

Explanation:

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Question 3

30°
O
x

What is the main angle fact you would use to find the size of x?

A) 'The angle at the centre is twice the angle at the circumference'

B) 'Opposite angles in a cyclic quadrilateral sum to 180°'

C) 'Base angles in an isosceles triangle are equal'

D) 'Angles in the same segment are equal'

Correct Answer: A B C D

Explanation:

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Question 4

x
75°
82°

What is the main circle theorem you would use to find the size of x?

A) 'The angle at the centre is twice the angle at the circumference'

B) 'Opposite angles in a cyclic quadrilateral sum to 180°'

C) 'The angle in a semi-circle is 90°'

D) 'Angles in the same segment are equal'

Correct Answer: A B C D

Explanation:

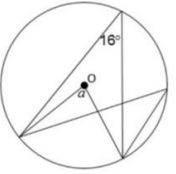..

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Question 1

16°

O

a

What is the main circle theorem you would use to find the size of a?

A) 'The angle at the centre is twice the angle at the circumference'

B) 'Opposite angles in a cyclic quadrilateral sum to 180°'

C) 'The angle in a semi-circle is 90°'

D) 'Angles in the same segment are equal'
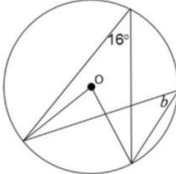
Correct Answer: A B C D

Explanation:

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Question 2

16°

O

b

What is the main circle theorem you would use to find the size of b?

A) 'The angle at the centre is twice the angle at the circumference'

B) 'Opposite angles in a cyclic quadrilateral sum to 180°'

C) 'Angles in the same segment are equal'

D) 'Angles in alternate segments are equal'
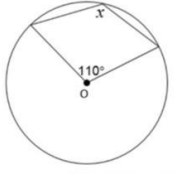
Correct Answer: A B C D

Explanation:

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Question 3

x

110°

O

What is the main circle theorem you would use to find the size of x?

A) 'The angle at the centre is twice the angle at the circumference'

B) 'Opposite angles in a cyclic quadrilateral sum to 180°'

C) 'The angle in a semi-circle is 90°'

D) 'Angles in the same segment are equal'

Correct Answer: A B C D

Explanation:

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