



New Maths GCSE: A16 - Equation of a Circle

Name:.....

Date:.....

$$x^2 + y^2 = 10$$

What are the co-ordinates of the centre of this circle?

- A** (0, 0) **B** (10, 10)
C (5, 5) **D** ($\sqrt{10}$, $\sqrt{10}$)

Correct Answer: A B C D

Explanation:

.....
.....
.....
.....
.....

$$x^2 + y^2 = 9$$

What is the radius of this circle?

- A** 3 **B** 4.5
C 9 **D** 81

Correct Answer: A B C D

Explanation:

.....
.....
.....
.....
.....

$$x^2 + y^2 = 11$$

What is the length of the radius of this circle?

- A** 121 **B** 5.5
C 11 **D** $\sqrt{11}$

Correct Answer: A B C D

Explanation:

.....
.....
.....
.....
.....

$$x^2 + y^2 = 16$$

What is the length of the diameter of this circle?

- A 8 B 4
 C 16 D 2

Correct Answer: A B C D

Explanation:

.....

.....

.....

.....

.....

.....

Which of the following gives the equation of a circle with radius 6 and centre (0, 0)?

- A $x^2 + y^2 = \sqrt{6}$ B $x^2 + y^2 = 6$
 C $x^2 + y^2 = 12$ D $x^2 + y^2 = 36$

Correct Answer: A B C D

Explanation:

.....

.....

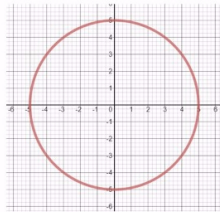
.....

.....

.....

.....

What is the equation of this circle?



- A $x^2 + y^2 = 5$ B $x^2 + y^2 = 10$
 C $x^2 + y^2 = 25$ D $x^2 + y^2 = \sqrt{5}$

Correct Answer: A B C D

Explanation:

.....

.....

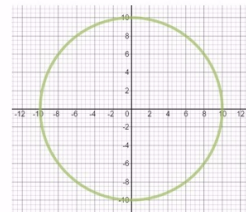
.....

.....

.....

.....

What is the equation of this circle?



- A $x^2 + y^2 = 5$ B $x^2 + y^2 = 20$
 C $x^2 + y^2 = 100$ D $x^2 + y^2 = 10$

Correct Answer: A B C D

Explanation:

.....

.....

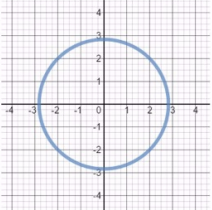
.....

.....

.....

.....

Which of the following could be the equation of this circle?



A $x^2 + y^2 = 8$ **B** $x^2 + y^2 = 2.8$
C $x^2 + y^2 = 10$ **D** $x^2 + y^2 = 1.4$

Correct Answer: A B C D

Explanation:

.....

.....

.....

.....

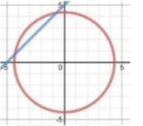
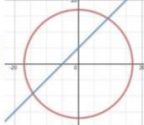
.....

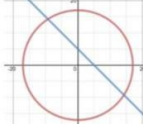
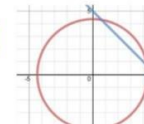
.....

Step 7

Which diagram represents these two equations?

$x^2 + y^2 = 19$
 $y = x + 5$

A 
B 

C 
D 

Correct Answer: A B C D

Explanation:

.....

.....

.....

.....

.....

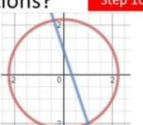

.....

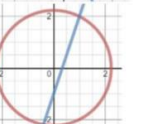

Follow up Questions for Edexcel GCSE – June 2014 – Higher – Paper 2 (Calc) – Question 26

Which of the following diagrams represents the solution to the two equations?

Step 10

$x^2 + y^2 = 5$
 $y = 3x + 1$

A) 
B) 

C) 
D) 

Correct Answer: A B C D

Explanation:

.....

.....

.....

.....

.....

.....