

Equations of Circles



Section A Select which of the following are equations of circles and state the radius.

1) $y = x^2 + 2x + 1$

2) $x^2 - y^2 = 10$

3) $x^2 + y^2 = 49$

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

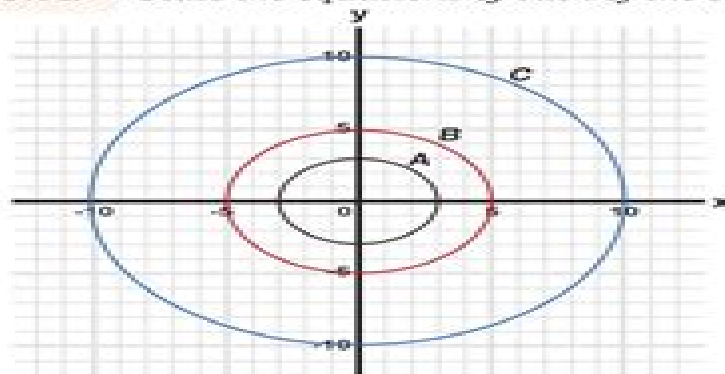
5) $4x^2 + 4y^2 = 100$

6) $x^2 - xy = 25$

7) $y^2 = 50 - x^2$

8) $2x^2 + xy - 6y^2 = 12$

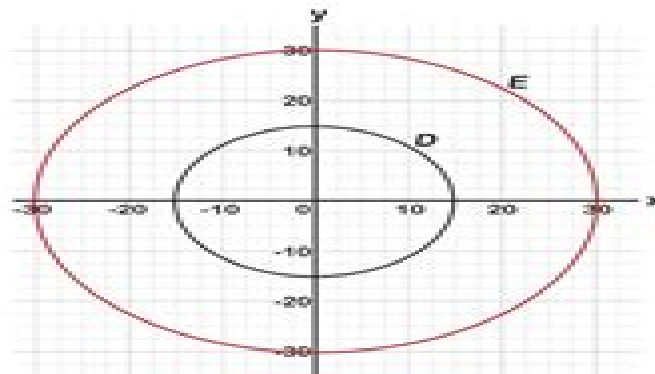
Section B State the equations of each of the circles.



A =

B =

C =



D =

E =

Section C Find the equation of the circles centred at the origin passing through the points.

1) (3,4)

2) (-6,8)

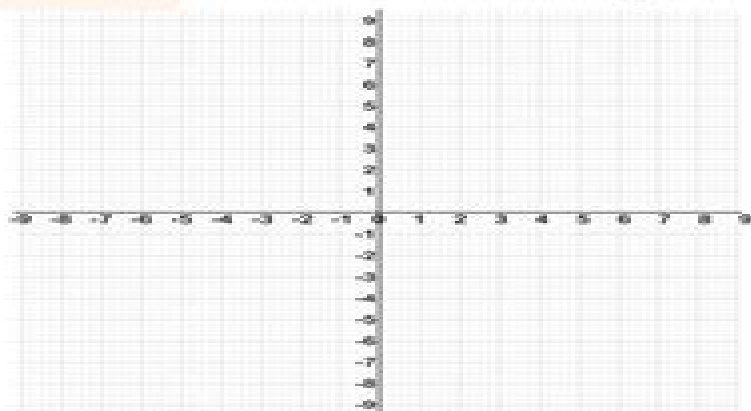
3) (-5, -12)

4) (1, -2)

5) (2, -4)

6) (-7, -11)

Section D Sketch the circles with the following equations.



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

2) $x^2 + y^2 = 36$

3) $x^2 + y^2 = 64$

EXTENSION:

Use your sketch to estimate the solution to the simultaneous equations:

$$x^2 + y^2 = 36$$

$$y = x + 2$$

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Table of Contents Algebra Ll Unit 1lesson Graphing Circles

1. Understanding the eBook Algebra Ll Unit 1lesson Graphing Circles
 - The Rise of Digital Reading Algebra Ll Unit 1lesson Graphing Circles
 - Advantages of eBooks Over Traditional Books
2. Identifying Algebra Ll Unit 1lesson Graphing Circles
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Algebra Ll Unit 1lesson Graphing Circles
 - User-Friendly Interface
4. Exploring eBook Recommendations from Algebra Ll Unit 1lesson Graphing Circles
 - Personalized Recommendations
 - Algebra Ll Unit 1lesson Graphing Circles User Reviews and Ratings

- Algebra Ll Unit 1lesson Graphing Circles and Bestseller Lists
- 5. Accessing Algebra Ll Unit 1lesson Graphing Circles Free and Paid eBooks
 - Algebra Ll Unit 1lesson Graphing Circles Public Domain eBooks
 - Algebra Ll Unit 1lesson Graphing Circles eBook Subscription Services
 - Algebra Ll Unit 1lesson Graphing Circles Budget-Friendly Options
- 6. Navigating Algebra Ll Unit 1lesson Graphing Circles eBook Formats
 - ePub, PDF, MOBI, and More
 - Algebra Ll Unit 1lesson Graphing Circles Compatibility with Devices
 - Algebra Ll Unit 1lesson Graphing Circles Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Algebra Ll Unit 1lesson Graphing Circles
 - Highlighting and Note-Taking Algebra Ll Unit 1lesson Graphing Circles
 - Interactive Elements Algebra Ll Unit 1lesson Graphing Circles
- 8. Staying Engaged with Algebra Ll Unit 1lesson Graphing Circles
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Algebra Ll Unit 1lesson Graphing Circles
- 9. Balancing eBooks and Physical Books Algebra Ll Unit 1lesson Graphing Circles
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Algebra Ll Unit 1lesson Graphing Circles
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Algebra Ll Unit 1lesson Graphing Circles
 - Setting Reading Goals Algebra Ll Unit 1lesson Graphing Circles
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Algebra Ll Unit 1lesson Graphing Circles
 - Fact-Checking eBook Content of Algebra Ll Unit 1lesson Graphing Circles
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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