

- ii) Find the maximum distance the point can move, along its path, if it continues in its pattern indefinitely.

$$S_{\infty} = \frac{a}{1-r} = \frac{4}{1-\frac{1}{2}} = 8$$

- iii) Complete the second row of the table below showing the changes to the x co-ordinate, the first nine times the point moves to a new position. Hence, or otherwise, find the x co-ordinate and the y co-ordinate of the final position that the point is approaching if it continues indefinitely in this pattern.

Stage	1 st	2 nd	3 rd	4 th	5 th	6 th	7 th	8 th	9 th
change in x	+4	0	-1	0	$\frac{1}{4}$	0	$-\frac{1}{16}$	0	$\frac{1}{64}$
change in y	0	2	0	$-\frac{1}{2}$	0	$\frac{1}{8}$	0	$-\frac{1}{32}$	0

As each time the point moves in one direction only, every second change in each direction is 0. Each time it changes in x, it is a quarter the previous change with a change in sign. Same goes for y.

For the next part, use the same formula as in part ii) but with $r = -\frac{1}{4}$

$$\left. \begin{array}{l} x: S_{\infty} = \frac{4}{1-(-\frac{1}{4})} = \frac{16}{5} \\ y: S_{\infty} = \frac{2}{1-(-\frac{1}{4})} = \frac{8}{5} \end{array} \right\} \begin{array}{l} \text{final position} \\ \text{is: } (\frac{16}{5}, \frac{8}{5}) \end{array}$$

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Table of Contents Leaving Cert Project Maths Sample Papers

1. Understanding the eBook Leaving Cert Project Maths Sample Papers
 - The Rise of Digital Reading Leaving Cert Project Maths Sample Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying Leaving Cert Project Maths Sample Papers
 - 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 Leaving Cert Project Maths Sample Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Leaving Cert Project Maths Sample Papers
 - Personalized Recommendations
 - Leaving Cert Project Maths Sample Papers User Reviews and Ratings
 - Leaving Cert Project Maths Sample Papers and Bestseller Lists
5. Accessing Leaving Cert Project Maths Sample Papers Free and Paid eBooks
 - Leaving Cert Project Maths Sample Papers Public Domain eBooks

- Leaving Cert Project Maths Sample Papers eBook Subscription Services
- Leaving Cert Project Maths Sample Papers Budget-Friendly Options
- 6. Navigating Leaving Cert Project Maths Sample Papers eBook Formats
 - ePub, PDF, MOBI, and More
 - Leaving Cert Project Maths Sample Papers Compatibility with Devices
 - Leaving Cert Project Maths Sample Papers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Leaving Cert Project Maths Sample Papers
 - Highlighting and Note-Taking Leaving Cert Project Maths Sample Papers
 - Interactive Elements Leaving Cert Project Maths Sample Papers
- 8. Staying Engaged with Leaving Cert Project Maths Sample Papers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Leaving Cert Project Maths Sample Papers
- 9. Balancing eBooks and Physical Books Leaving Cert Project Maths Sample Papers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Leaving Cert Project Maths Sample Papers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Leaving Cert Project Maths Sample Papers
 - Setting Reading Goals Leaving Cert Project Maths Sample Papers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Leaving Cert Project Maths Sample Papers
 - Fact-Checking eBook Content of Leaving Cert Project Maths Sample Papers
 - 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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