

- 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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