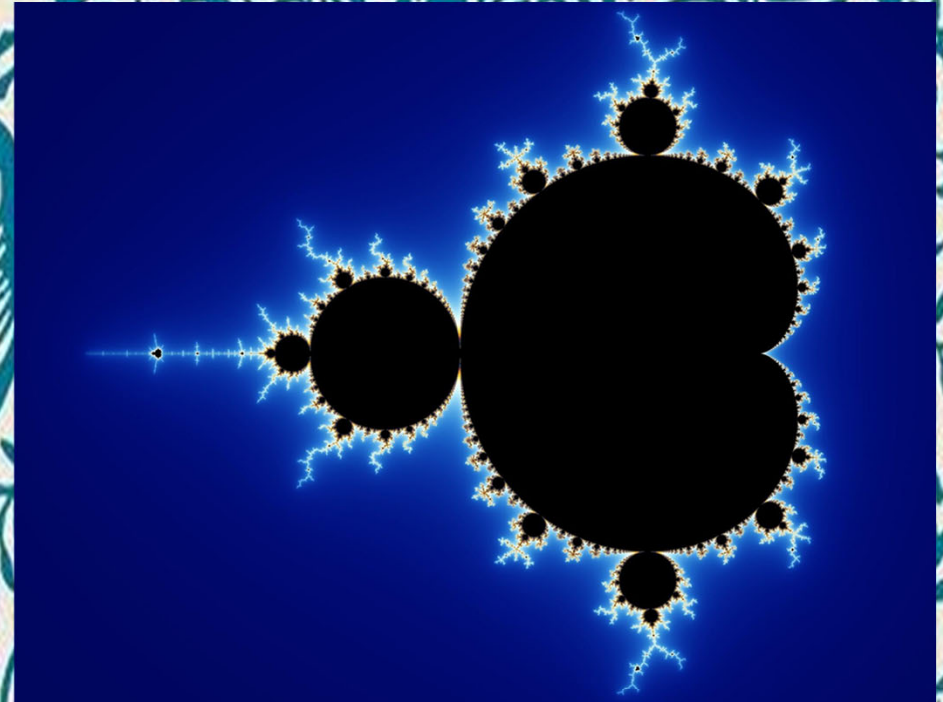
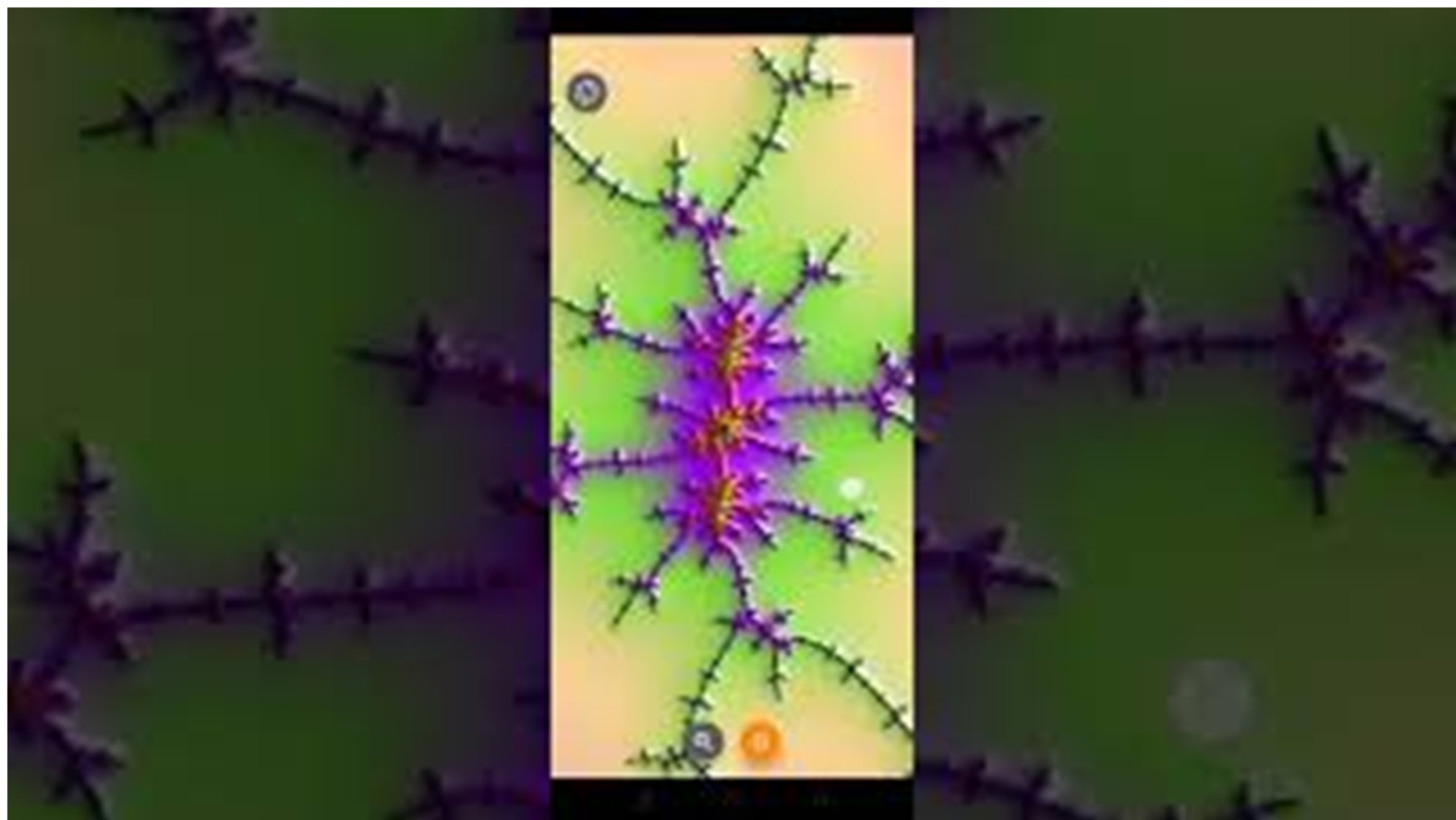


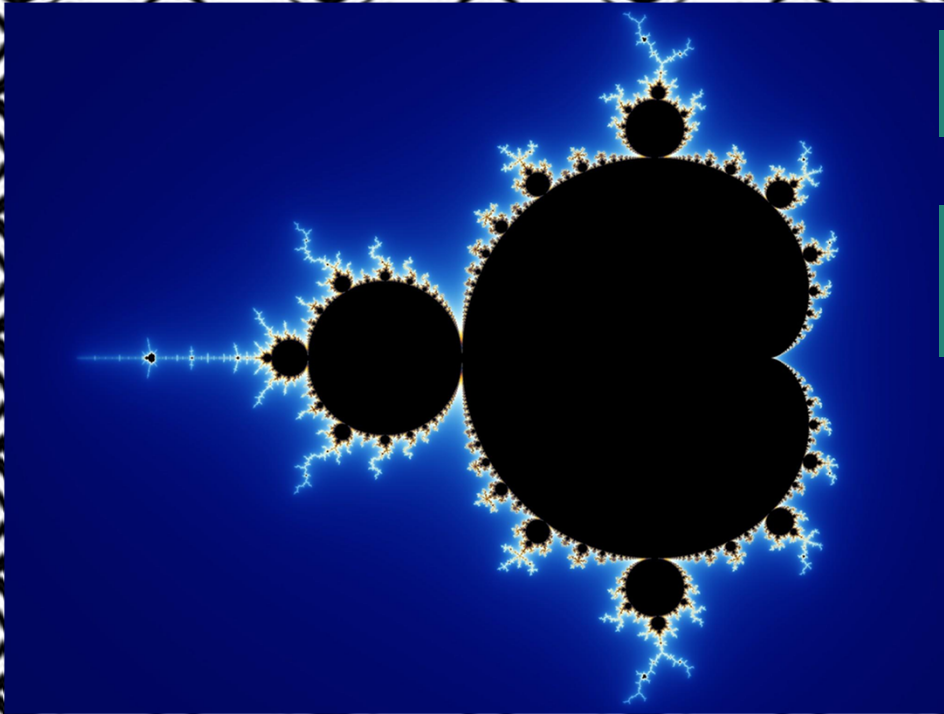
THE MANDLEBROT SET

BY AMRITA SAGAR
5th GRADE





WHAT IS MANDLEBROT SET CATEGORISED INTO?



❑ IT IS CALLED A FRACTAL

❑ IT IS ONE OF THE MOST FASCINATING FRACTALS

IMAGINE THIS AS A GRAPH

1
2
3
4
5
6
7
8
9
10

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

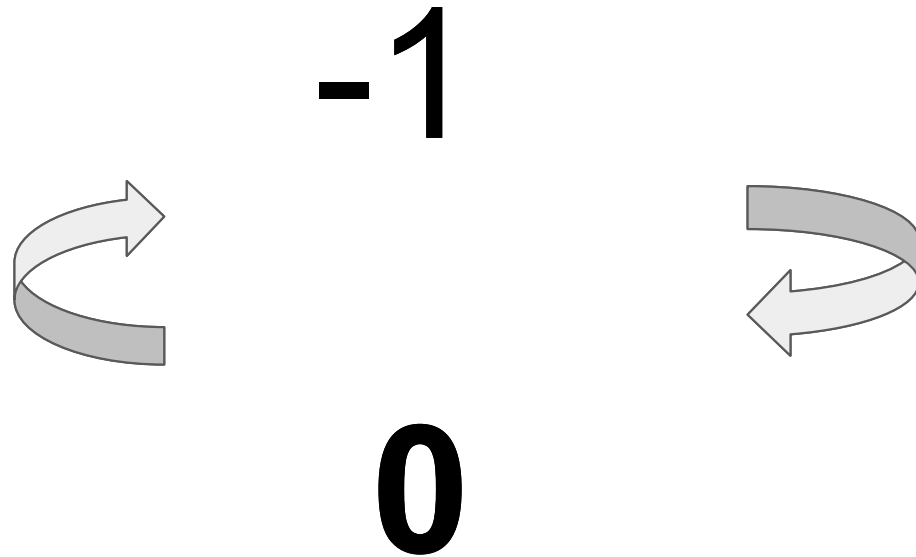


2

$$Z_{n+1} = Z_n + i$$

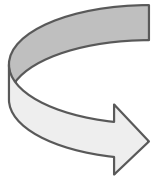
- **YOU CANNOT SQUARE NEGATIVE NUMBERS**
- **NEGATIVE NUMBER² IS CALLED 'i'**

SOME OF THE ANSWERS GO IN A LOOP



THIS MEANS THEY ARE NOT PART OF MANDLEBROT SET

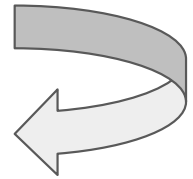
SOME OF THE ANSWERS GET SMALLER\BIGGER!



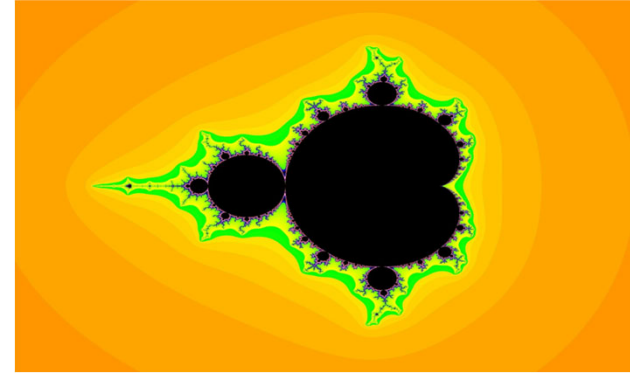
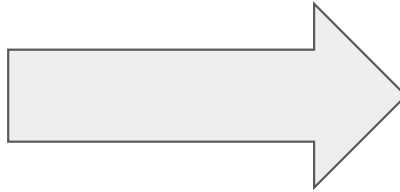
1.23434325167
2.34343435645897
3.675844211425780

OR

4.657284628566
2.8508999889986
0.45333235434345326



THIS IS PART OF MANDLEBROT SET



IF YOU COLOUR CODE THE ENTIRE GRAPH YOU GET THE MANDELBROT SET

WHAT ARE IT'S BENEFITS?

THERE ARE NO BENEFITS!



THANK YOU !

