Graph of possible values of where , and k<j.

Given three specified numbers, the minimum value of n allowed ( min), the maximum value of n allowed(max), and i, then the set of points of are given by the coloured areas in these two graphs depending whether min is greater or less than i squared:-

1. Situation 1:   
   , or

There are 3 situations:-

<B, so  or

* 1. .
  2. in that interval we have

<E, so , or

* 1. ,
  2. In that interval we have
  3. E<<F, so
  4. In that interval we have

ACE is the line ,

BDF is the line

1. or

There are 3 situations:-

<B, so or

* 2. in that interval we have

<D, so or

* 2. In that interval we have
  3. D<<F, so
  4. In that interval we have

3.

There are 2 situations:-

3.1. <A, so . in that interval we have

3.2. <B, so . In that interval we have