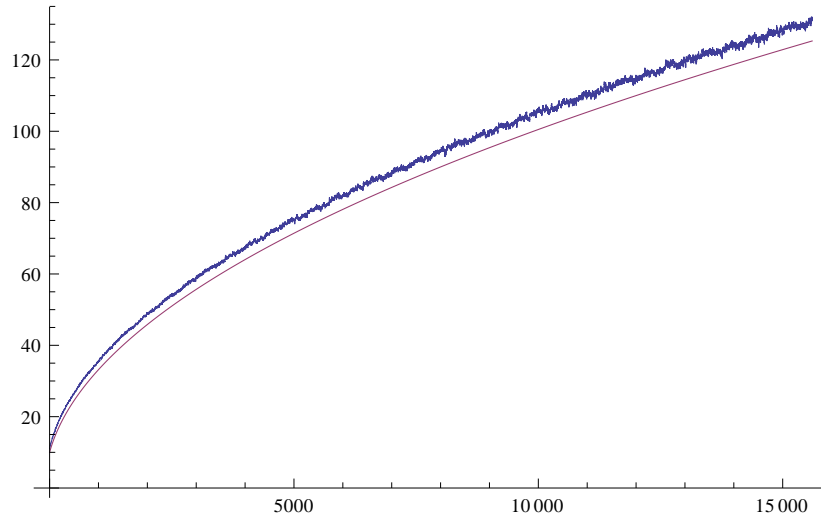


```

g[N_] := Tally[Flatten[
  Table[Table[Table[i^2 + k^2 + j^2, {i, 0, N}], {j, 0, N}], {k, 0, N}], 3]]
a = Sort[g[150]];
ListPlot[{b, Table[{i, Sqrt[i + n/2]}, {i, 0, Length[a] / 3}]}, Joined -> True]

```



```

n = 200; b = {}; For[i = 1, i < Length[a] / 3, i++,
  AppendTo[b, 1 / n (Sum[a[[i + k, 2]], {k, 0, n - 1}])];]
$Aborted

```