**Sum square difference**

Top of Form



Bottom of Form

**Problem 6**

The sum of the squares of the first ten natural numbers is,

12+22+...+102=385

The square of the sum of the first ten natural numbers is,

(1+2+...+10)2=552=3025

Hence the difference between the sum of the squares of the first ten natural numbers and the square of the sum is 3025−385=2640.

Find the difference between the sum of the squares of the first one hundred natural numbers and the square of the sum.

