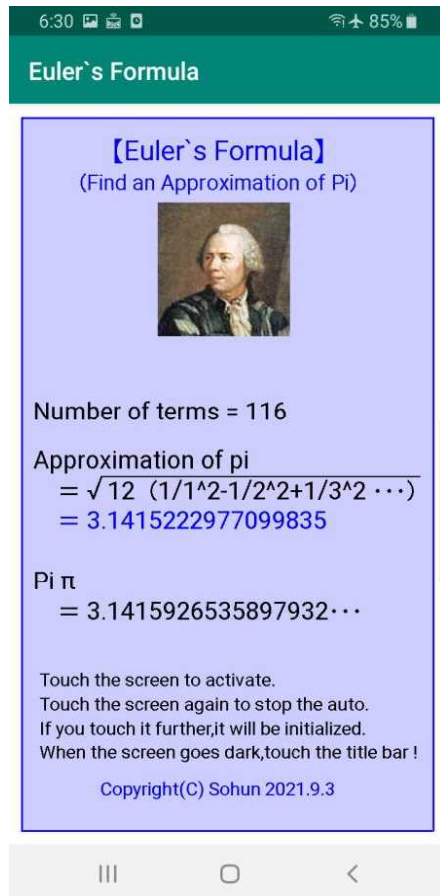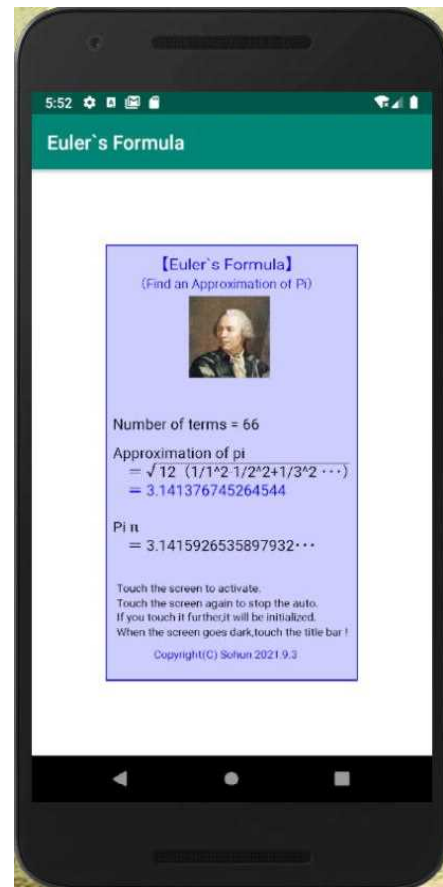# 【Euler's Formula】

※ Use Euler's formula to find an approximate value of pi.

【Screenshot】
Galaxy S9

【Emulator image】
Android Studio Version 3.5.1

［Outline］

Use the following Euler's formula to find an approximate value of pi.

$$pi = \sqrt{1\ 2\left(\frac{1}{1^{\ 2}} - \frac{1}{2^{\ 2}} + \frac{1}{3^{\ 2}} - \frac{1}{4^{\ 2}} + \cdot\ \cdot\ \cdot\right)}$$

Let's observe how the approximate value of pi can be obtained as the number of terms increases