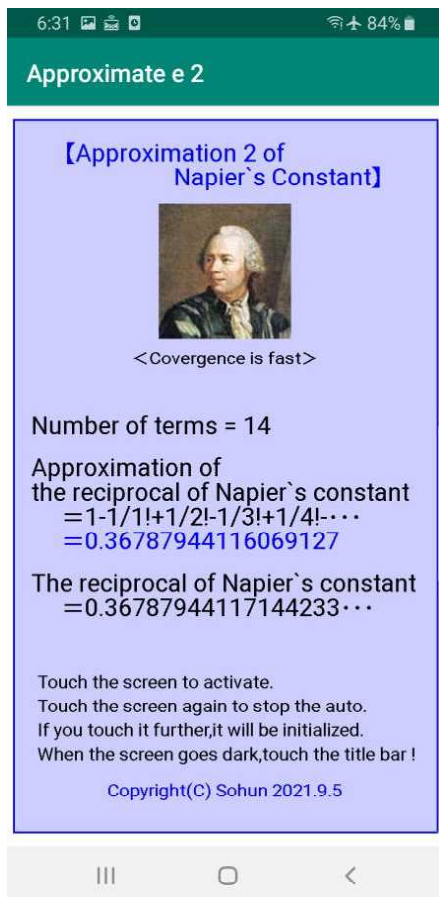


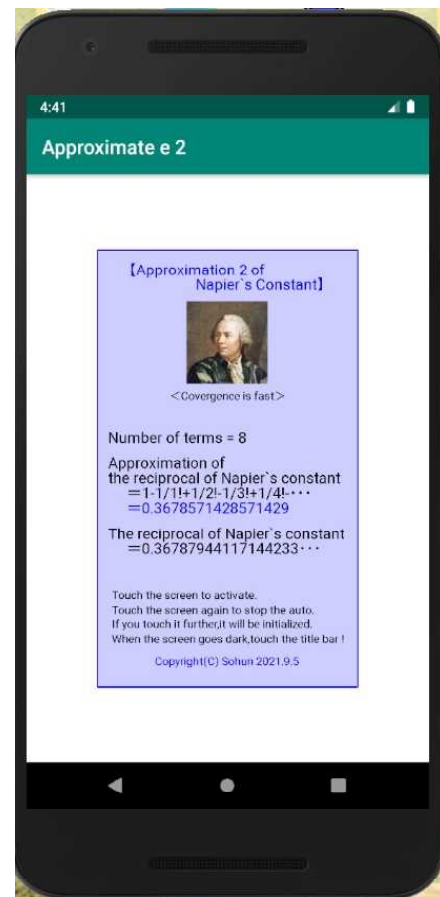
## 【Approximation 2 of Napier's Constant e】

- ※ Use the approximation formula to find the approximation of reciprocal of the base of the natural logarithm.



【Screenshot】

Galaxy S9



【Emulator image】

Android Studio Version 3.5.1

### [Outline]

Use the following approximation formula to find the approximation of the reciprocal of the base  $e$  of the natural logarithm.

$$\frac{1}{e} = 1 - \frac{1}{1!} + \frac{1}{2!} - \frac{1}{3!} + \frac{1}{4!} - \dots$$

Let's observe how the approximation of the reciprocal of the base  $e$  of the natural logarithm can be obtained as the number of terms increases.

You can see that the convergence speed is very fast.