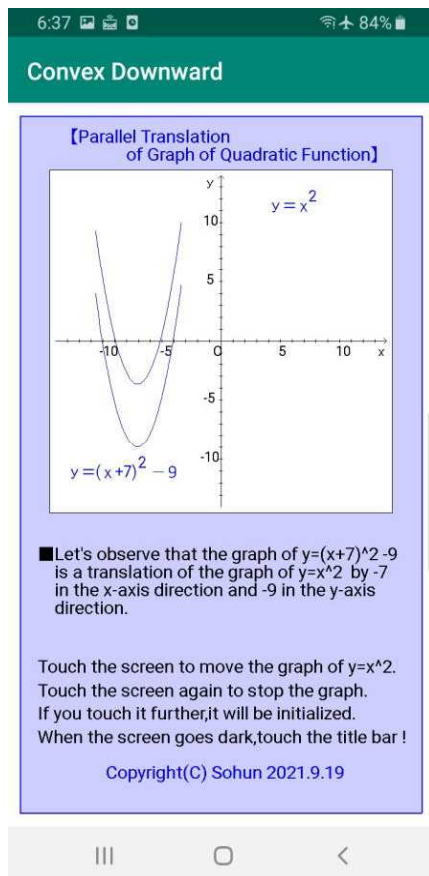
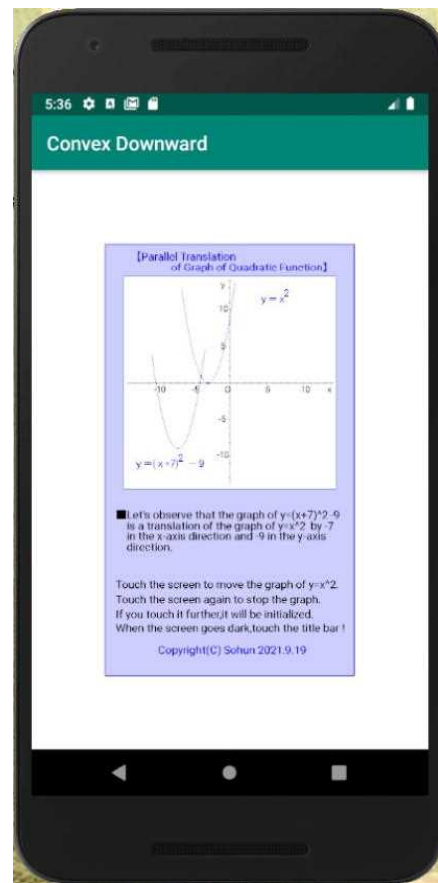


【Translation of Graph of Quadratic Function (Convex downward)】

※ Observe the translation of the graph of the quadratic function.



【Screenshot】
Galaxy S9



【Emulator image】
Android Studio Version 3.5.1

[Outline]

Let's see that the graph of " $y = (x + 7)^2 - 9$ " is a translation of the graph of " $y = x^2$ " by -7 in the x-axis direction and -9 in the y-axis direction.

Observe how the graph of " $y = x^2$ " moves in parallel by -7 in the x-axis direction and -9 in the y-axis direction and overlaps with the graph of " $y = (x + 7)^2 - 9$ ".

At this time, let's note that these two graphs have the same shape and spread, but differ only in position.