<Homework #1>

(1) Using the 'Midpoint algorithm', derive the algorithm to draw parabola of $y = \frac{1}{100}x^2$ within $-100 \le x \le 100$ range.

(2) Code the above algorithm, and compare the result with the attached image.

(origin (0,0), window size 640x480, coordinate (-100, 100, -100, 100))

(3) In order to draw full parabola of $y = ax^2 + bx + c$ (without $-100 \le x \le 100$ range limits), which part and how should it be changed? Think carefully and write detailed discussion about it.

-Submission

1) Algorithm derivation and description about it
2) Source code of the most important part
3) Result image
4) Analysis and discussion about the result

* Due date : 10/10, PM 7:00