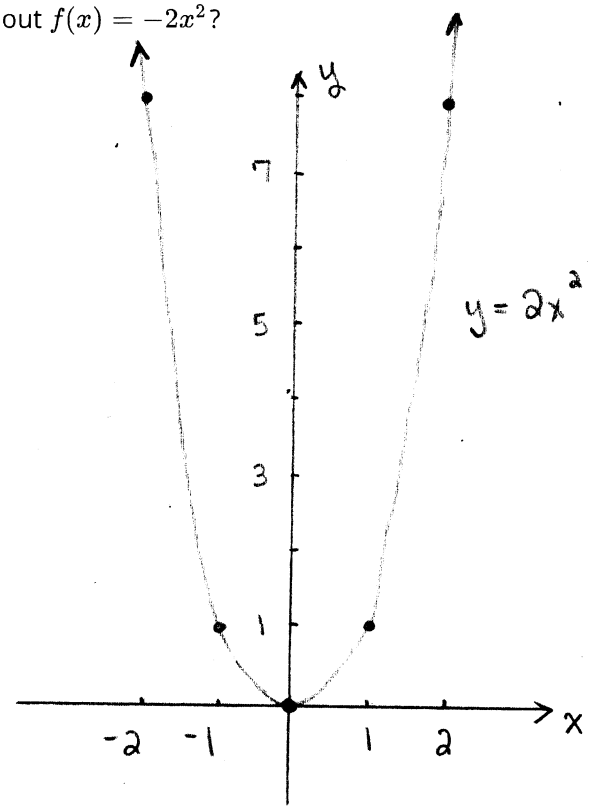
① ②

- Sketch the graph of $f(x) = 2x^2$. What about $f(x) = -2x^2$?

①

GRAPH IS A PARABOLA OPENING UPWARD WITH VERTEX AT (0,0).

x	$f(x) = 2x^2$
0	0
1	2
-1	2
2	8
-2	8



BECAUSE OF THE FACTOR OF 2, THE GRAPH OF $y = 2x^2$ IS VERTICALLY STRETCHED COMPARED TO THE GRAPH OF $y = x^2$.

②

THE GRAPH OF $y = -2x^2$ IS IDENTICAL TO THAT OF $y = 2x^2$ EXCEPT THAT IT IS REFLECTED ABOUT THE X-AXIS.

SOMETHING LIKE...