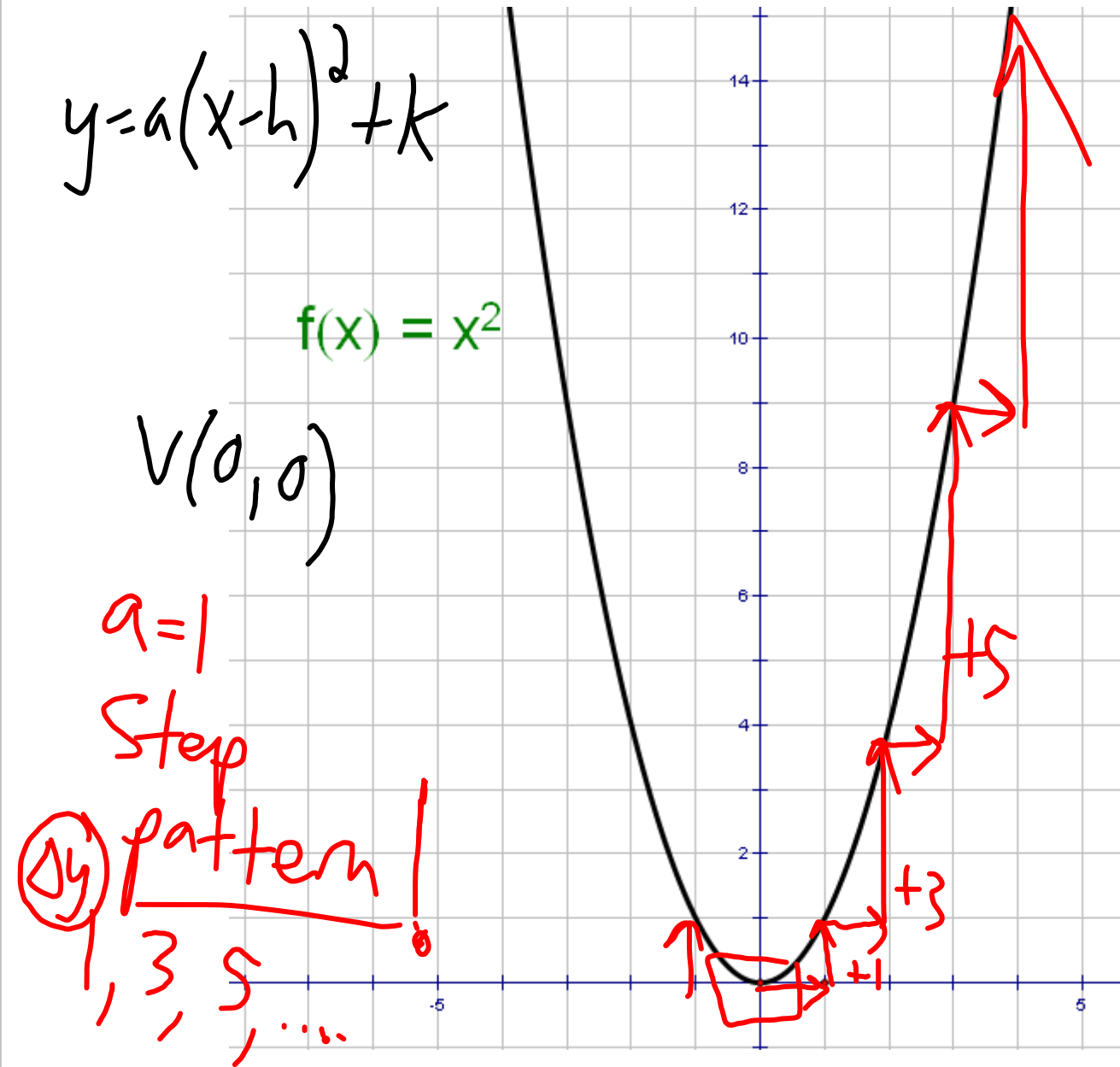
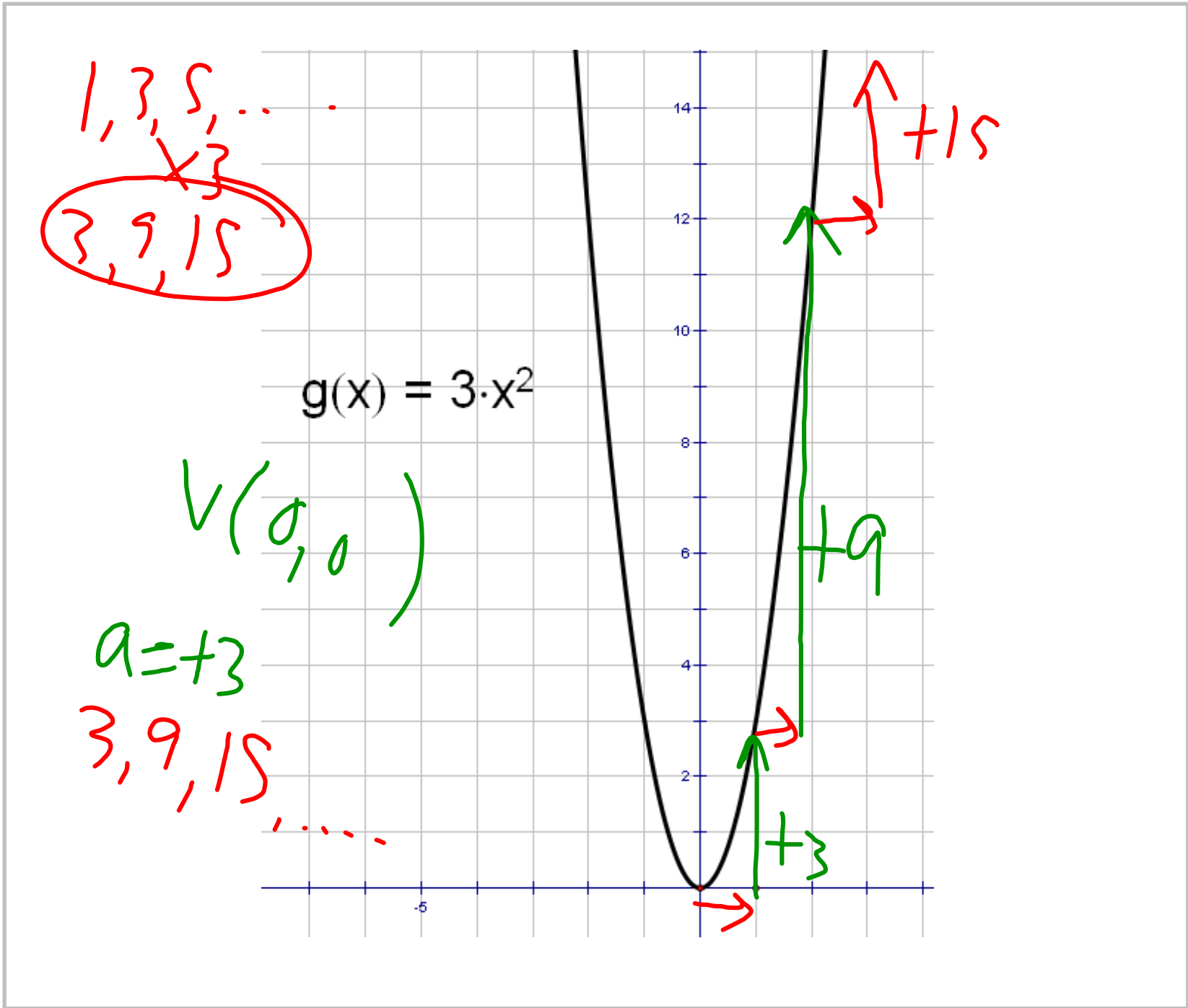
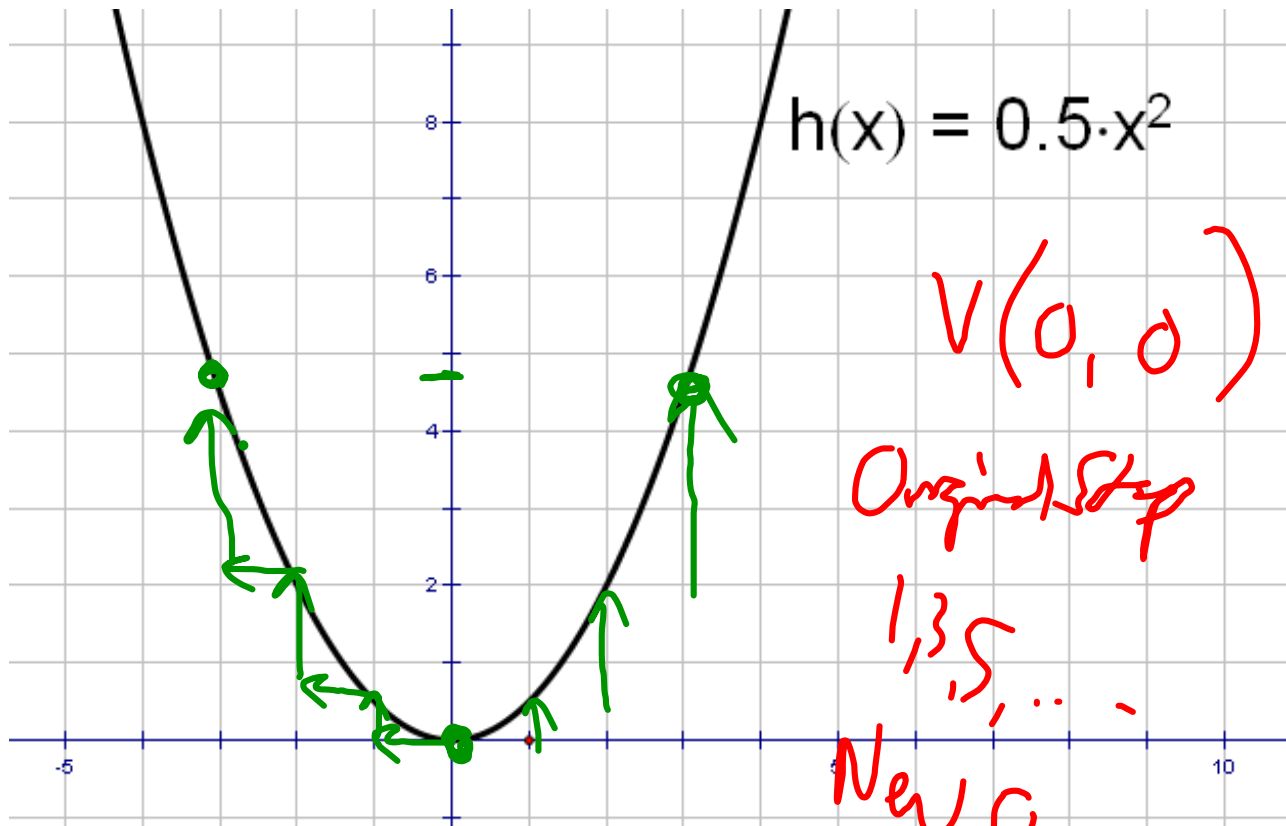


4.2 Vertex Form of a Quadratic Relation pg345 to 356.







$h(x) = 0.5 \cdot x^2$

$V(0, 0)$

Original Step

1, 3, 5, ...

New Step
to 0.5

$\frac{1}{2}, \frac{1}{2}, 2, 5, \dots$



Summary

- "a" determines the direction
- and the shape!

then if $a = 1$
then Step 1, 3, 5, ...

refers to

$\rightarrow \Delta y$ when

ex. 1) $a = 4$

original

1, 3, 5, ...

new

4, 12, 20, ..

$\Delta x = 1$

$(x^2) \quad a=4$

$V(3,7)$

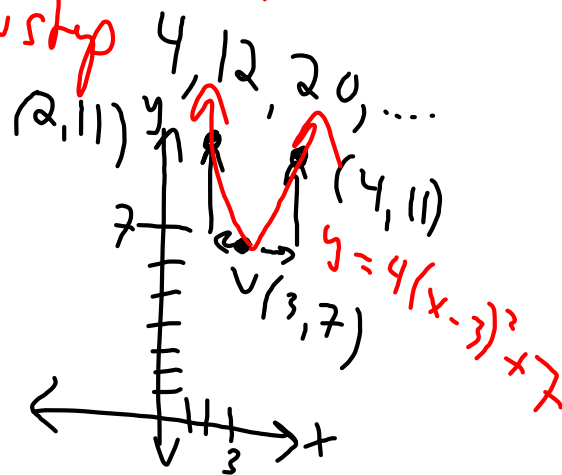
g) eq? $y = 4(x-3)^2 + 7$

g2) graph?

step? shape/direction?

1, 3, 5, ...

how step



ex?) $y = -5(x+1)^2 + 11$

a) vertex? $V(-1, 11)$

b) a? -5

\therefore shape/direction (step)

$1, 3, 5, \dots$

$-5, -15, -25, \dots$

c) graph

