## CYU 2.1 Transformations of Quadratic Functions DAY ONE

☑ Use when you get it right all by yourself

S Use when you did it all by yourself, but made a silly mistake

H Use when you could do it alone with a little help from teacher or peer

G Use when you completed the problem in a group

X Use when a question was attempted but wrong (get help)

NUse when a question was not even attempted

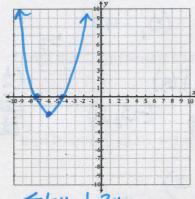
CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Describing Transformation	1 - 3	7 - 9	10 - 16
Graphing Quadratics	4, 5	1, 2, 3, 6	
Using your Calculator	1 - 3	7-9	
Identifying the Vertex	10 - 12		13 - 16

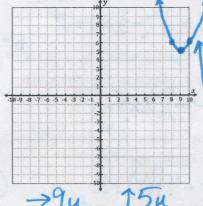
Describe the transformations of  $f(x) = x^2$  represented by g. Then graph each function.

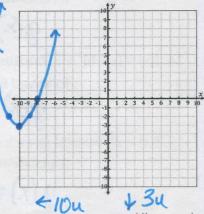
1. 
$$g(x) = (x + 6)^2 - 2$$

2. 
$$g(x) = (x-9)^2 + 5$$

3. 
$$g(x) = (x + 10)^2 - 3$$







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Sketch a graph that would show the transformation from graph f given the rule.

4. 
$$y = f(x - 1)$$

5. 
$$y = f(x) + 1$$

6. 
$$y = f(x - 1) + 1$$

-> lu



