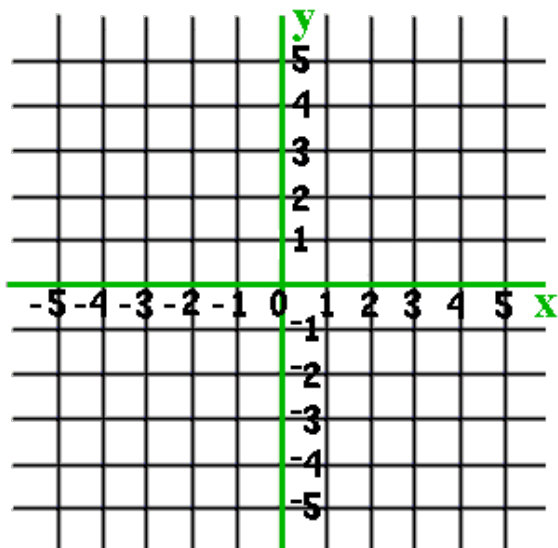


SECTION 5-1 QUIZ A

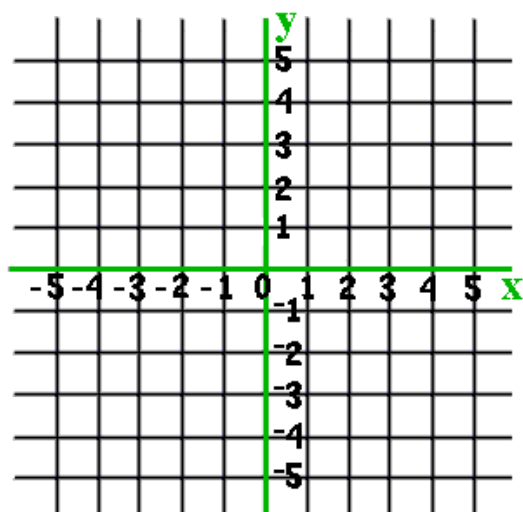
The parent function $f(x) = x^2$ is vertically compressed by a factor of $\frac{1}{2}$ and translated 1 unit right and 3 units down to create g . Identify g in vertex form.

- $g(x) = 2(x - 1)^2 - 3$
- $g(x) = 2(x + 1)^2 + 3$
- $g(x) = \frac{1}{2}(x - 1)^2 - 3$
- $g(x) = \frac{1}{2}(x + 1)^2 + 3$
-

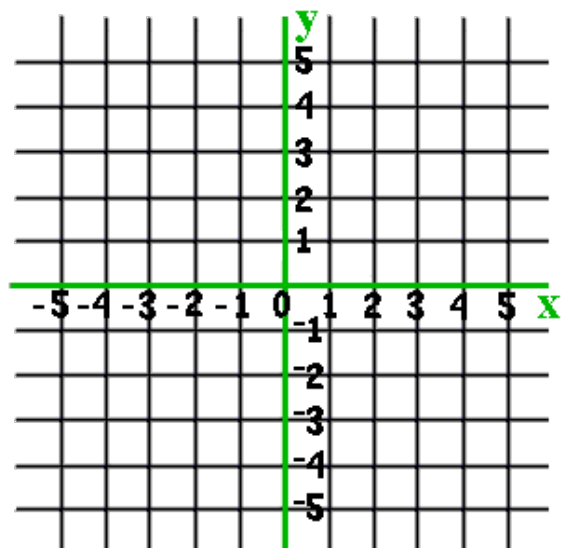
Identify the graph for the function $f(x) = x^2 - 5x + 6$ using a table.



Using the graph $f(x) = x^2$ as a guide, describe the transformations and then graph $g(x) = 3(x - 1)^2 + 2$.



Using the graph $f(x) = x^2$ as a guide, describe the transformations and then graph $g(x) = -\frac{1}{3}x^2 - 3$.



*****EXTRA CREDIT*****

Identify the graph for the function $g(x) = -x^2 + x + 1$ using a table.

