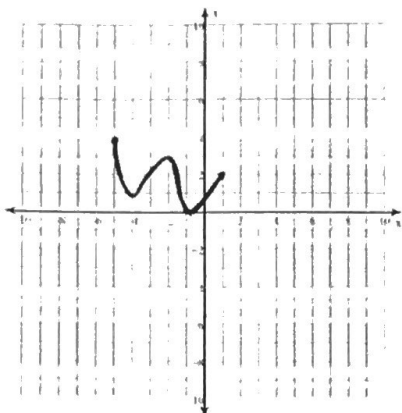


Transformation Practice 2

NAME: _____

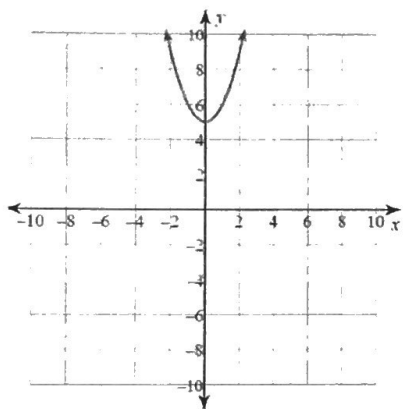
Answer all questions below to the best of your ability. If you are stuck or have doubts about your answers, let Ms. Yawn or Mrs. R know!

1. The graph below is for $f(x)$.
Sketch $f(x - 4)$.

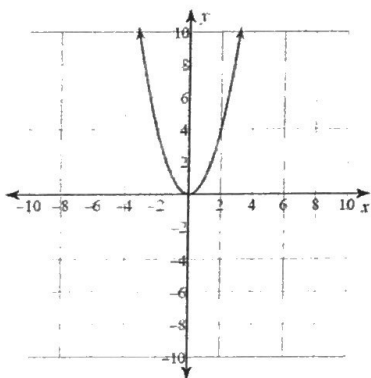


2. The graph below is transformed from the parent function $f(x) = x^2$. Write the new formula for the transformation. We will call this new function $g(x)$.

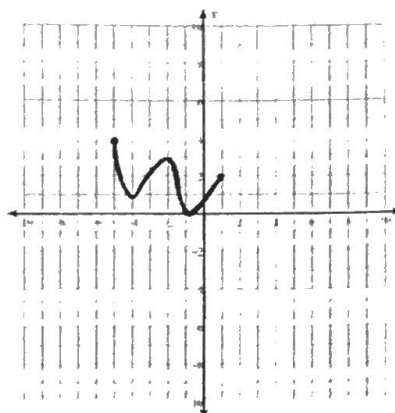
$g(x) =$ _____



3. Sketch on the graph below: $f(x) = x^2 - 2$

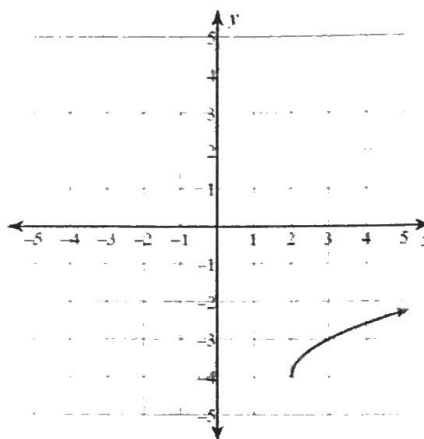


4. The graph below is for $f(x)$.
Sketch $f(x + 3) + 4$.

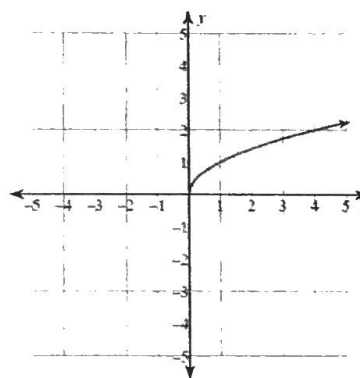


5. The graph below is transformed from the parent function $f(x) = \sqrt{x}$. Write the new formula for the transformation. We will call this new function $g(x)$.

$g(x) =$ _____



6. Sketch on the graph below: $f(x) = \sqrt{x + 2} + 4$



more on back →

(from pg 1)
For problems 1, 2, + 5, describe the following key characteristics.

- a. State the parent function.
- b. Graph the function.
- c. State the domain and range of the function.
- d. Identify the intervals on which the function is increasing and/or decreasing.
- e. State the x and y intercepts.
- f. Identify the maximum and minimum values (if they exist).
- g. Identify the end behaviors of the function.

①

②

⑤