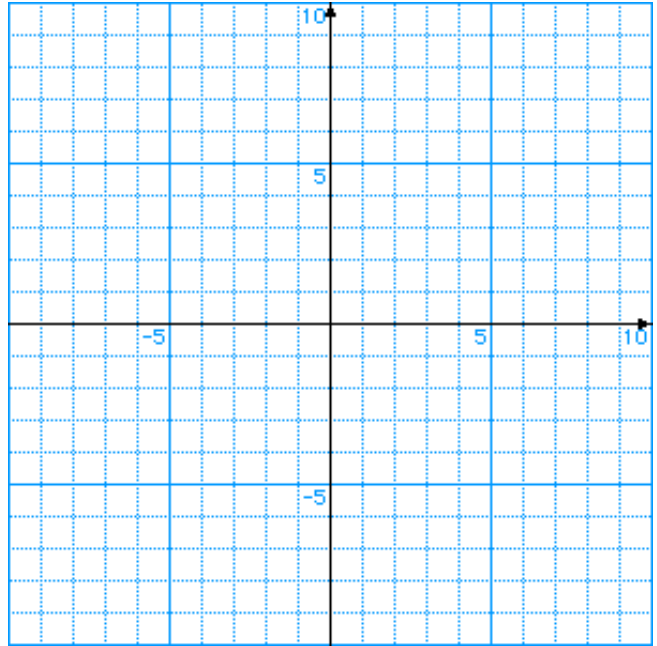


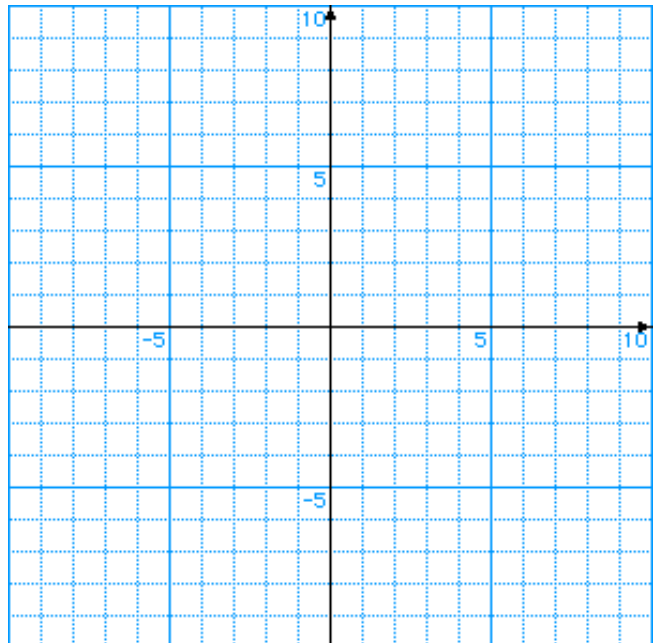
# Translations Assignment

Name: \_\_\_\_\_

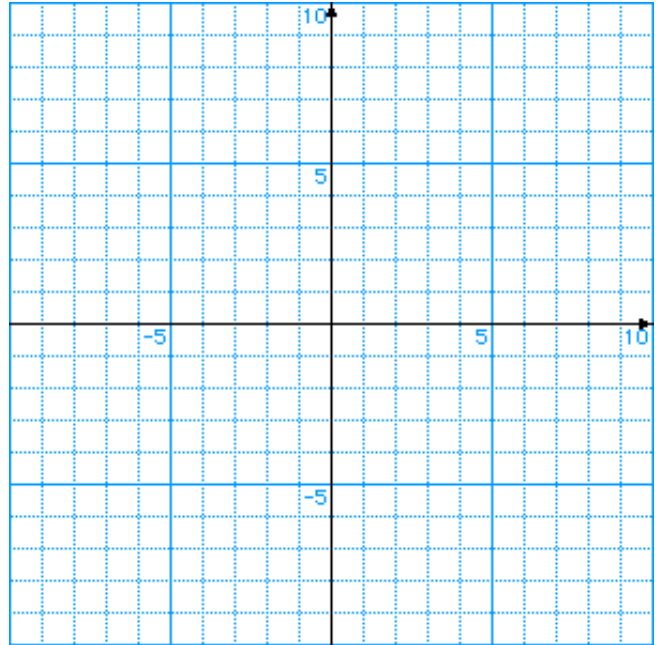
1. Sketch the graph of  $y = (x+4)^2$  without using your calculator. Find the x and y intercepts of the function.



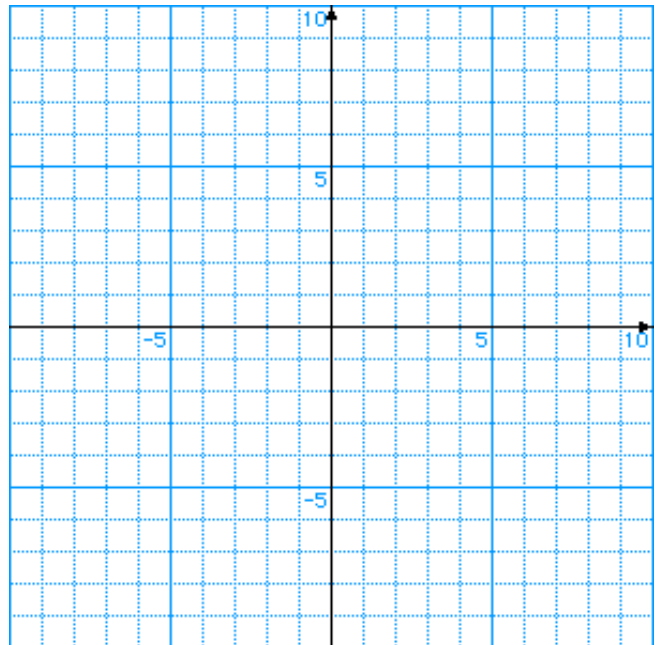
2. Sketch the graph of  $y = x^2 + 4$  without using your calculator. Find the x and y intercepts of the function.



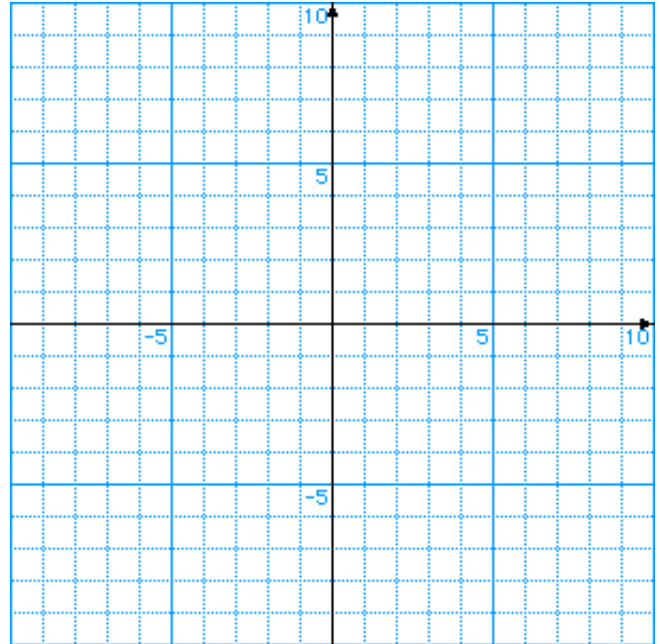
3. Sketch the graph of  $y = \frac{1}{x-4}$  without using your calculator. State the domain and range of the function.



4. Sketch the graph of  $y = |x-3|+4$  without using your calculator. State the domain and range of the function.



5. Sketch the graph of  $y = \sqrt{x-2} + 4$  without using your calculator. State the domain and range of the function.



6.  $(-2, 6)$  is an image point on the transformed graph of  $g(x) = f(x+2) - 7$ . Determine the original point on the graph of  $f(x)$ .