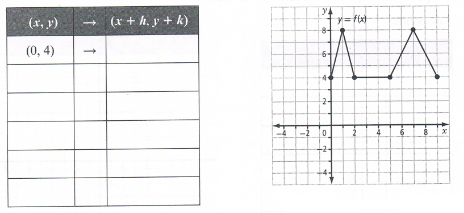
QUIZ 1.1 – 1.2

1. Identify the values of the parameters a, b, h and k for each of the following functions. Explain what transformation they represent :  
     
   a) a= b= h = k =   
     
     
   b) a= b= h = k =  
     
     
   c) a= b= h = k =  
     
     
   d) a= b= h = k =
2. Given the equation of f(x) in each case, determine the equation of the transformed function g(x) after a translation of 2 units to the right and 5 units down. Simplify.  
   a)   
     
     
     
   b)   
     
     
     
   c)   
     
     
     
   d)
3. Determine, in each case, the equation of the function obtained after reflecting around the x-axis and stretched it horizontally by a factor of 3. Simplify.  
   a)   
     
     
     
   b)   
     
     
     
   c)   
     
     
     
   d)
4. Determine, in each case, the equation of the function obtained after reflcting around the y-axis and stretched it vertically by a factor of 2. Simplify.  
   a)   
     
     
     
   b)   
     
     
     
   c)   
     
     
     
   d)
5. Given the graph of *f*(*x*), graph the transformed function : on the same set of axes and fill the table.  
     
   
6. The graph of the function is translated 5 units to the left and 2 units up to form the transformed function . Determine the equation of :
7. a) If and you want to stretch its graph vertically so it’s twice taller, what is the equation of the function you want to graph ?  
     
     
     
     
     
   b) If you compare the graphs of and , what can you say about the graph of compared to the graph of ?   
     
     
     
     
     
     
     
   c) If , and you want to have a graph similar but twice wider (horizontal), what equation would be appropriate for ? What are the invariant points ?
8. Graph the following transformation of and write its equation (with respect to f): reflection in the x-axis and a vertical stretch by a factor of .  
     
   