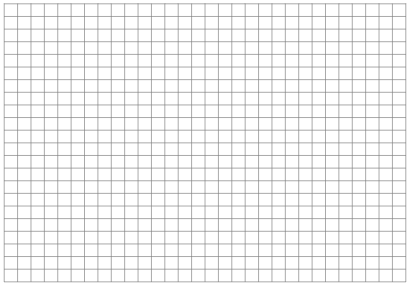
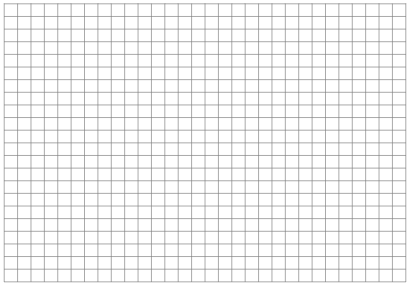
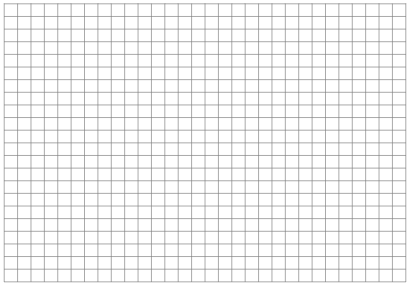
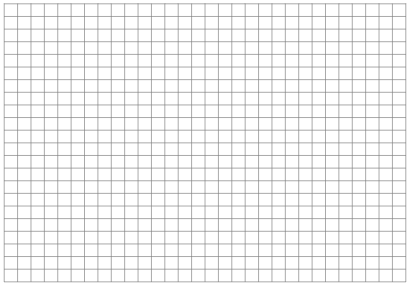
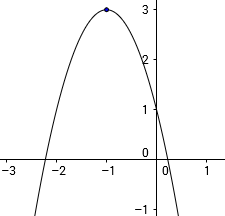
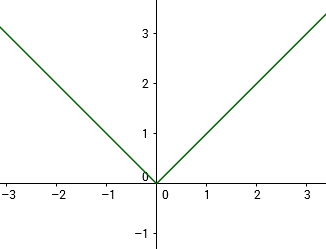
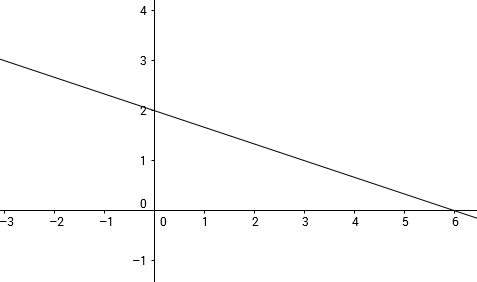
**Introduction TEST**

1. Graph the following functions. Determine their domains, Ranges, exact values of the intercepts and vertex when relevant.  
   a) [3]  
     
   Domain: Range:  
     
   *x*-intercepts: *y*-intercept:  
     
   b) [4]  
     
   Domain: Range:  
     
   *x*-intercepts: *y*-intercept:  
     
   Vertex:  
   c) [3]

  
  
Domain: Range:  
  
  
*x*-intercepts: *y*-intercept:  
  
  
e) [3]  
  
  
  
Domain: Range:  
  
  
*x*-intercepts: *y*-intercept:

1. Solve the following equations algebraically. Keep exact values. [17]  
   a) b)   
     
     
     
     
     
     
   c) by factoring d)   
     
     
     
     
     
     
     
     
     
     
     
     
   e) f)
2. a) Rewrite in vertex form [1]  
      
     
     
     
   b) Rewrite in factored form. [2]

[1]

1. Determine the equations of the following graphs. [4]  
   a) b)  
      
     
     
     
     
   c)   
   
2. a) Let and . Determine the expressions of the following composite functions: [2]  
     
    [2]