**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]