**Tutorial Sheet 1 Functions**

1. Write the following using function notation
   1. Multiply the input by 5 and add 9
   2. Square the input and multiply it by 2, add 5 times the input to the result and subtract 2 from the result
   3. The result is -9
   4. Triple the input and multiply by 4 and add 3 to the result
2. For the following functions, find the output for the given input
   1. 
      1. 
      2. 
      3. 
      4. 
   2. 
      1. 
      2. 
      3. 
      4. 
3. For the following functions find the output for the given input
   1.  when 
      1. 
      2. 
      3. 
      4. 
      5. 
   2.  when 
      1. 
      2. 
      3. 
      4. 
      5. 
      6. 
4. Given , ,  and  find
   1. f(5)
   2. g(3)
   3. h(-2)
   4. u(3)
   5. f(g(2))
   6. g(h(3))
   7. f-1(x)
   8. f-1(2)
   9. h(f(x))
   10. f(h(x))

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