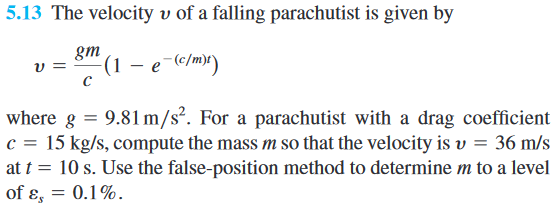
**PART II**



We need to find the m value which satisfy the equation where v = 36 m/s, c= 15 kg/s, g = 9.81 , t = 10 s and the approximate error is 0.1%.

Firstly, we need to create the function out of the equation we are given. Which can be change into function:

In this case we are going to use Newton-Raphson method to solve the problem. Let us choose the initial guess of x = 10.

1. Find the derivative of the function by using symbolic toolbox and matlabFunction.
2. Substitute the values into the formula using the initial point of x = 10.
3. Repeat the process by using while loop or for loop until we got the error less than 0.1%.

The result from using this method **is m = 59.84**. This method can be very accurate depends on the initial point we guessed at the first time.

