

theoretical physics such as  
all of these

[PHY312] The ends A and B of a rod of 20cm length are kept at  $30^{\circ}\text{C}$  and  $80^{\circ}\text{C}$  until steady state prevails. What is the condition  $u(x,0)$ ?  
 $30 + 5/2 x$

[PHY312] For a function of a single variable  $f(x)$ , the extrema are the points where the differentiation is equal zero

[PHY312] A major reason of linearising an expression is so that some relevant information can be obtained

[PHY312] The one dimensional heat equation can be solved using a variable separable method. The constant which appears in the solution should be \_\_\_\_\_  
negative

[PHY312] The order of the PDE  $r + s + t = 0$  is  
2

[PHY312] Laplace transform is \_\_\_\_?  
linear transform

[PHY312] The PDE obtained by eliminating arbitrary constants  $a$  and  $b$  from  $z = ax^2 + by^2$  is  
 $px^2 + qy^2 = 2z$

[PHY312] A necessary requirement for the secant method is that the root lie between the two initial points

[PHY312] \_\_\_\_\_ is a function that repeats itself after a specific period of time  
Periodic Function.

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