***Surface***

***Surface* of a curve ** is given by the formula:



If , then



: is the conjugate of 

***Iff***  satisfies these 2 conditions:

1. 
2. 

***Proof***







*We need to combined to a perfect square* 

* If 

 

* Let 

 



 ***√***



***Example***

Find the surface of the graph of 

***Solution***

|  |  |
| --- | --- |
|  | 1. ***√*** 2. ***√*** |
|  |

If , then



***Iff***  satisfies these 2 conditions:

1. 
2. 

***Proof***







* If 

 

* Let 

 





 ***√***