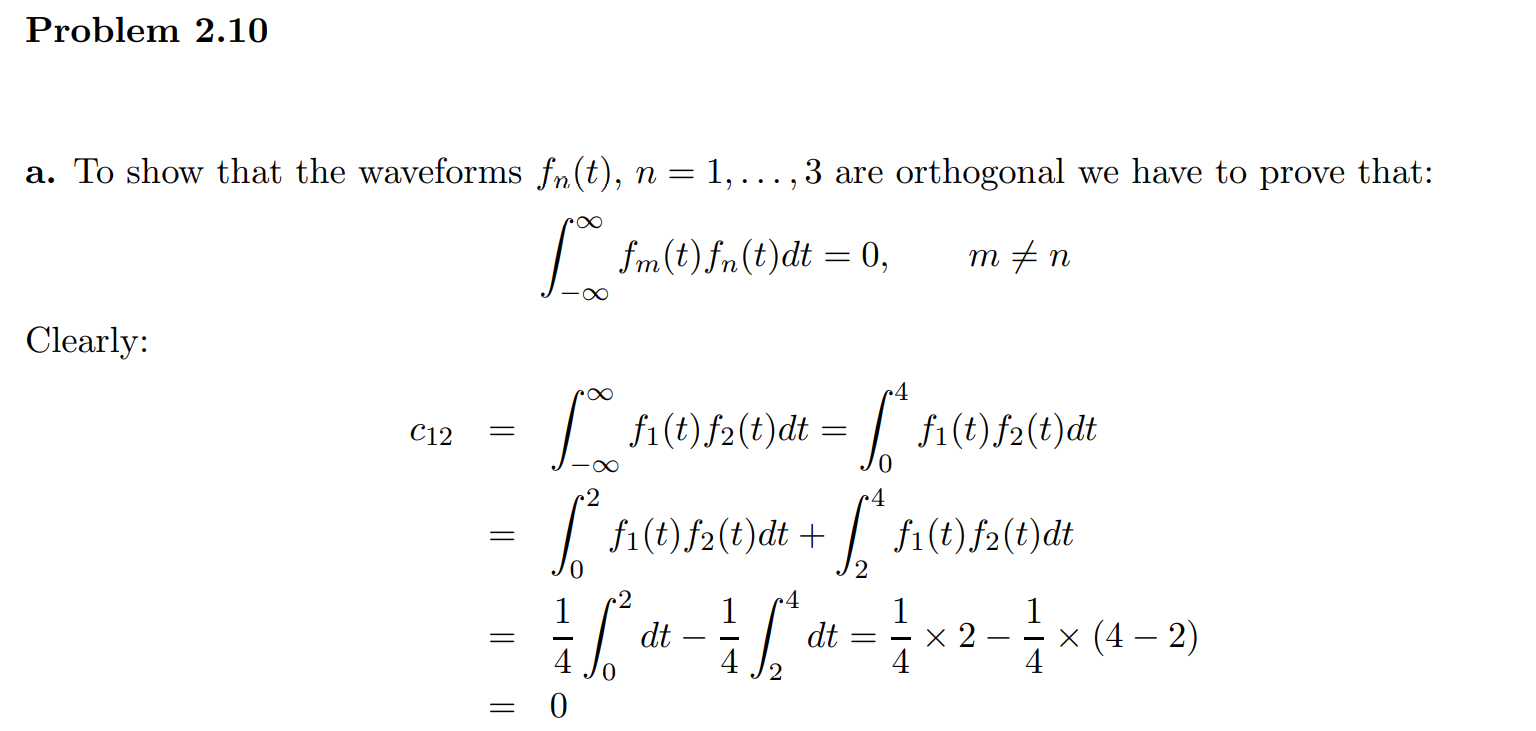
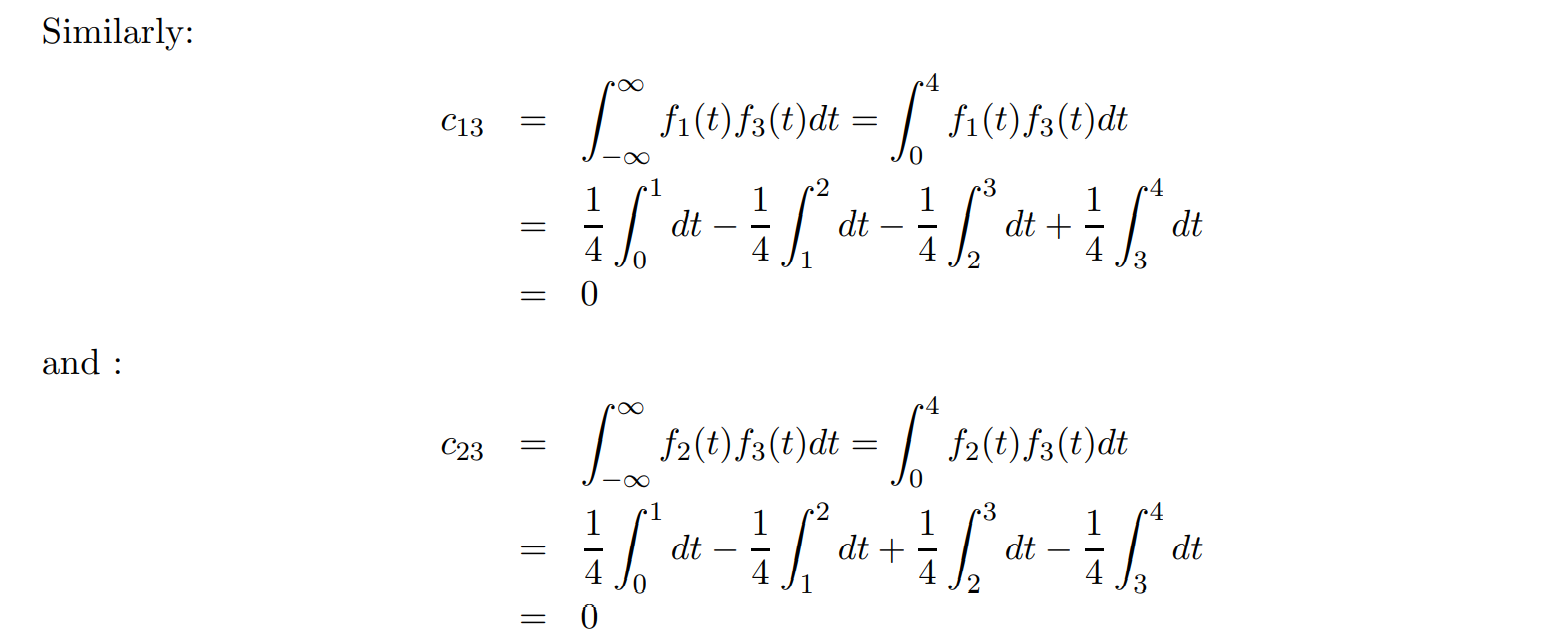
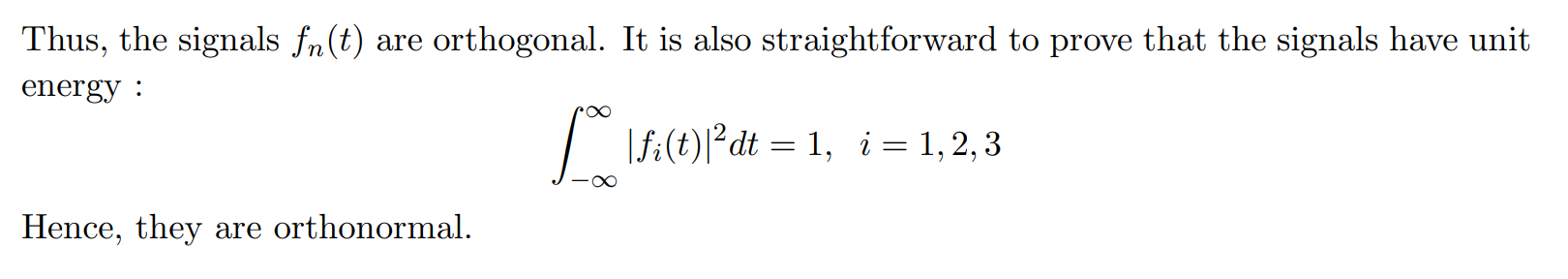
**Homework #1 Solution**

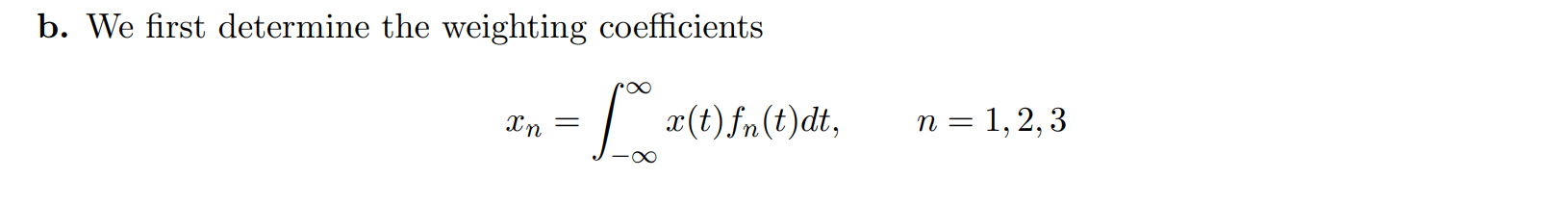
**Due 23:59, Oct. 27, 2022**

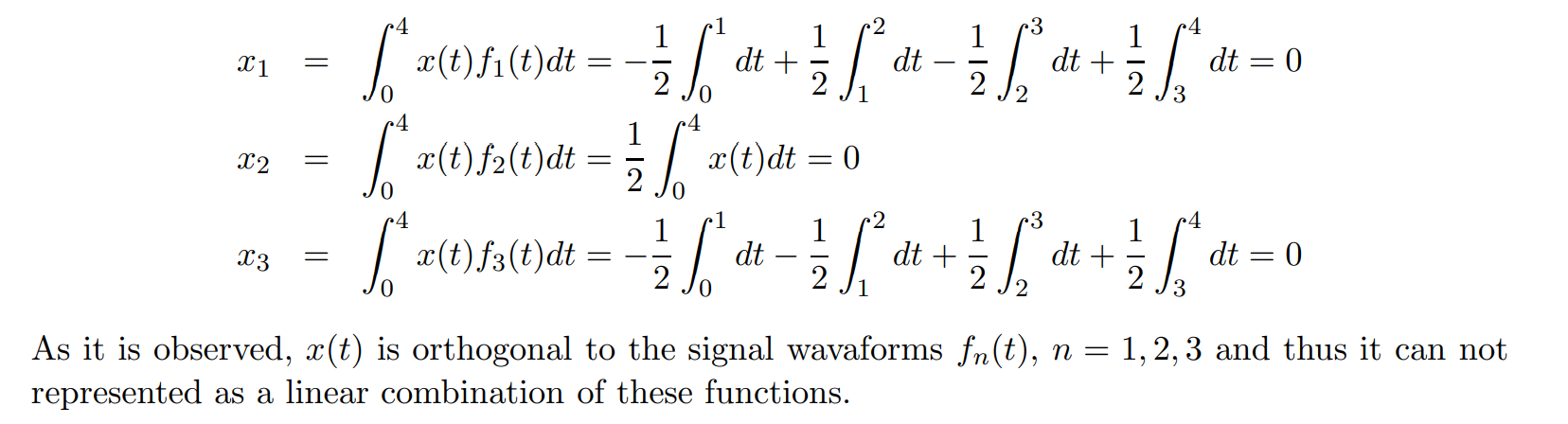
**(5% + 5%)**



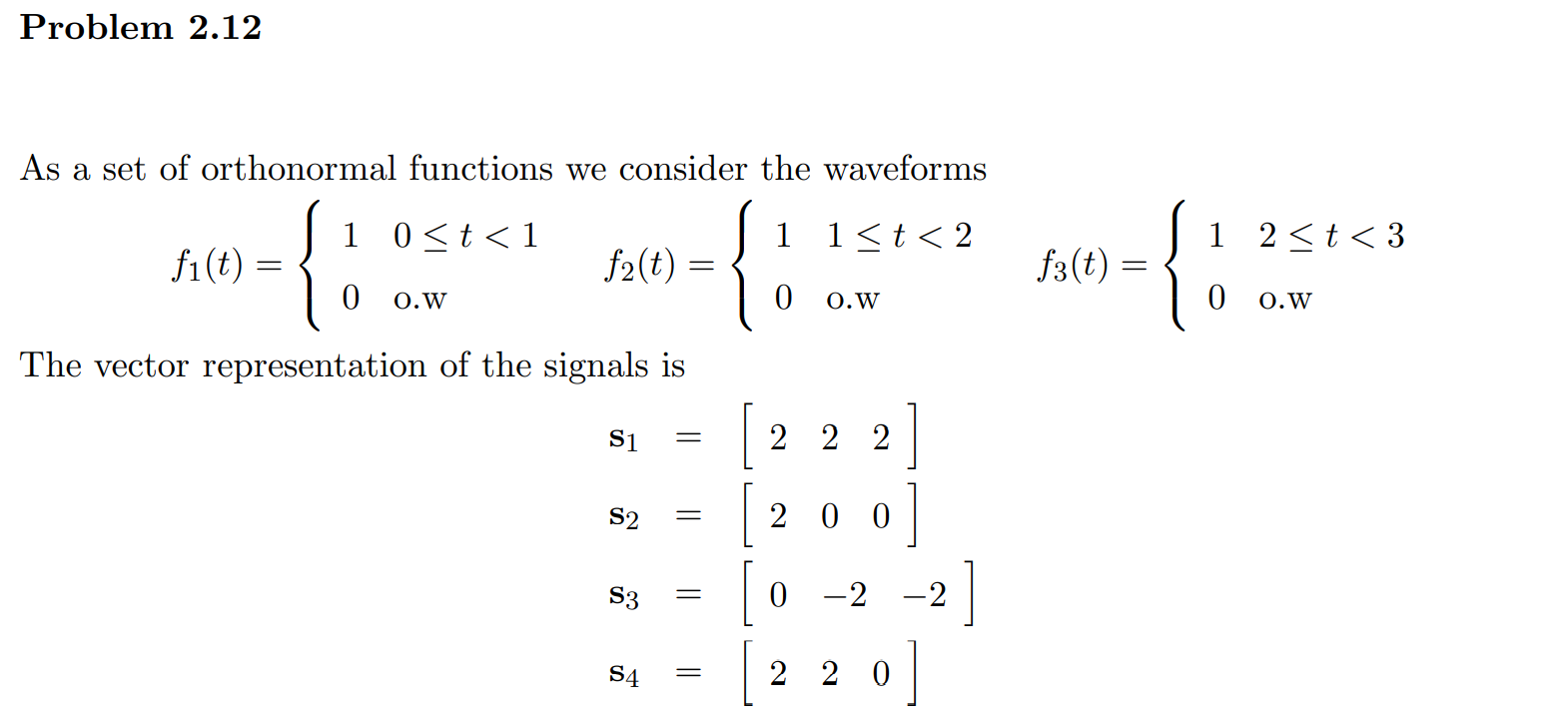






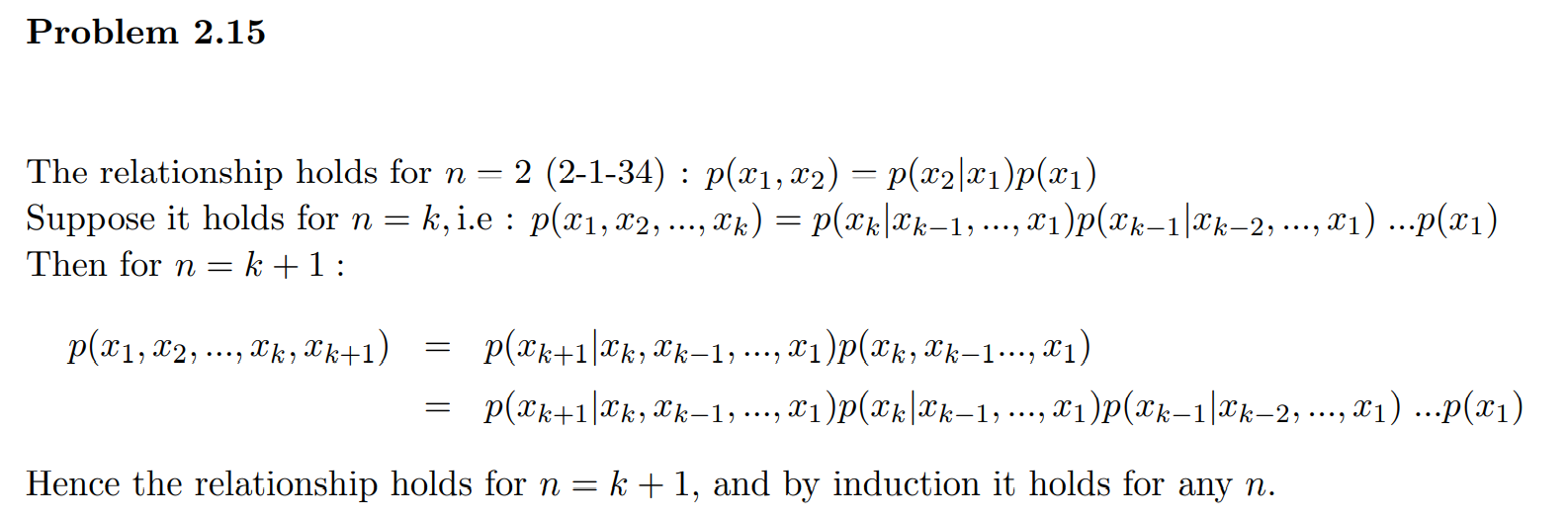


**(10%)**

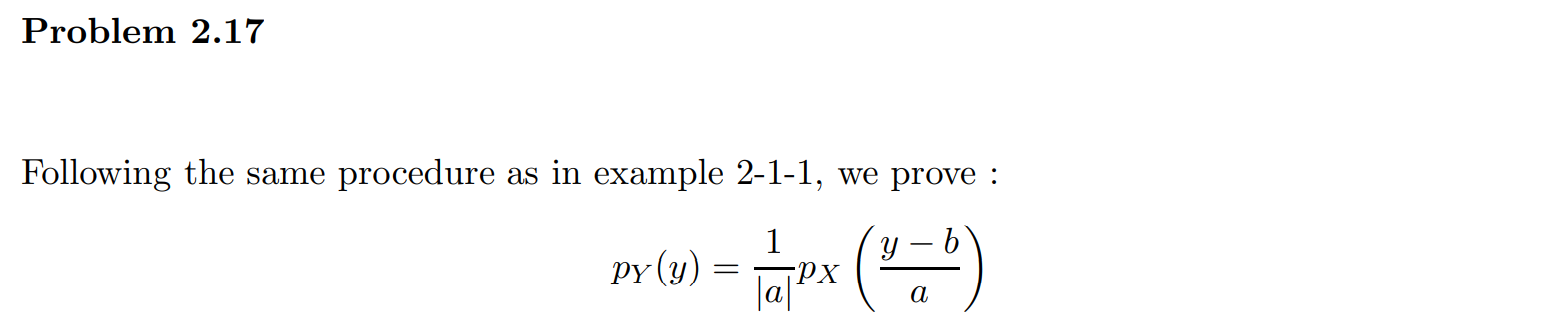


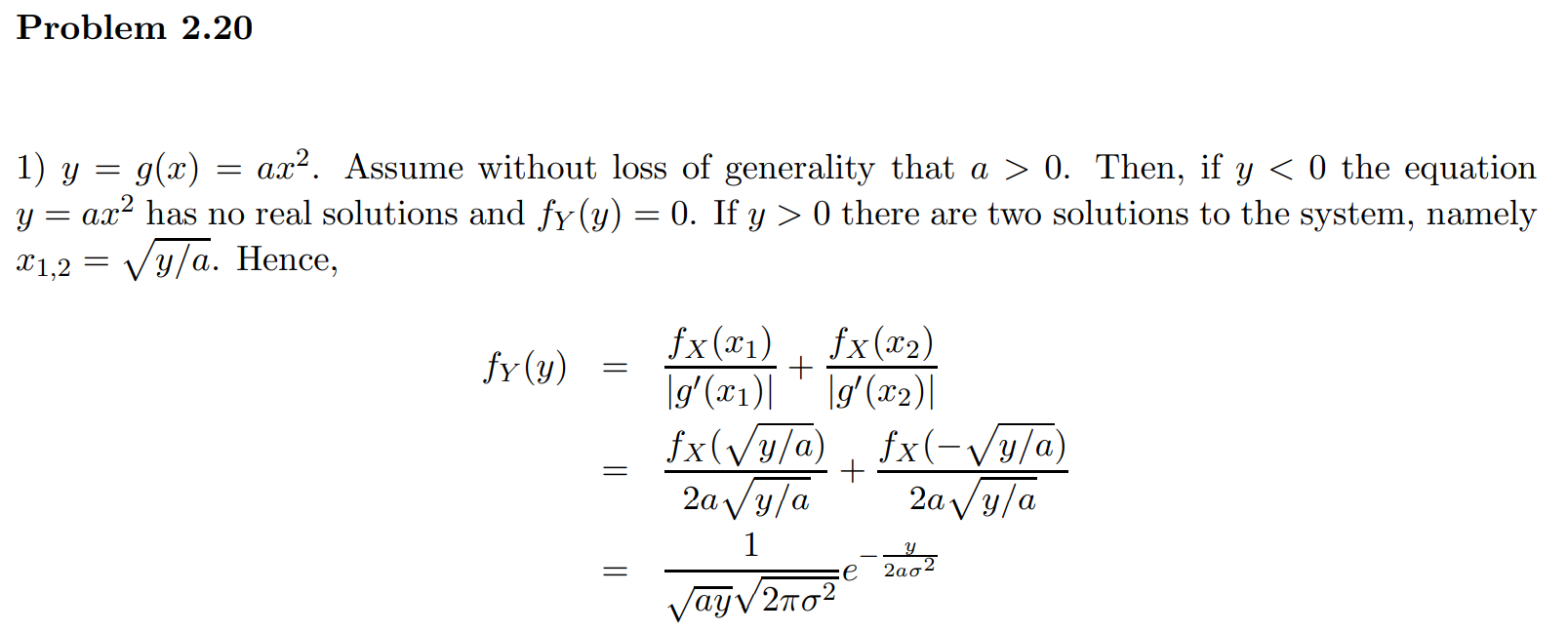


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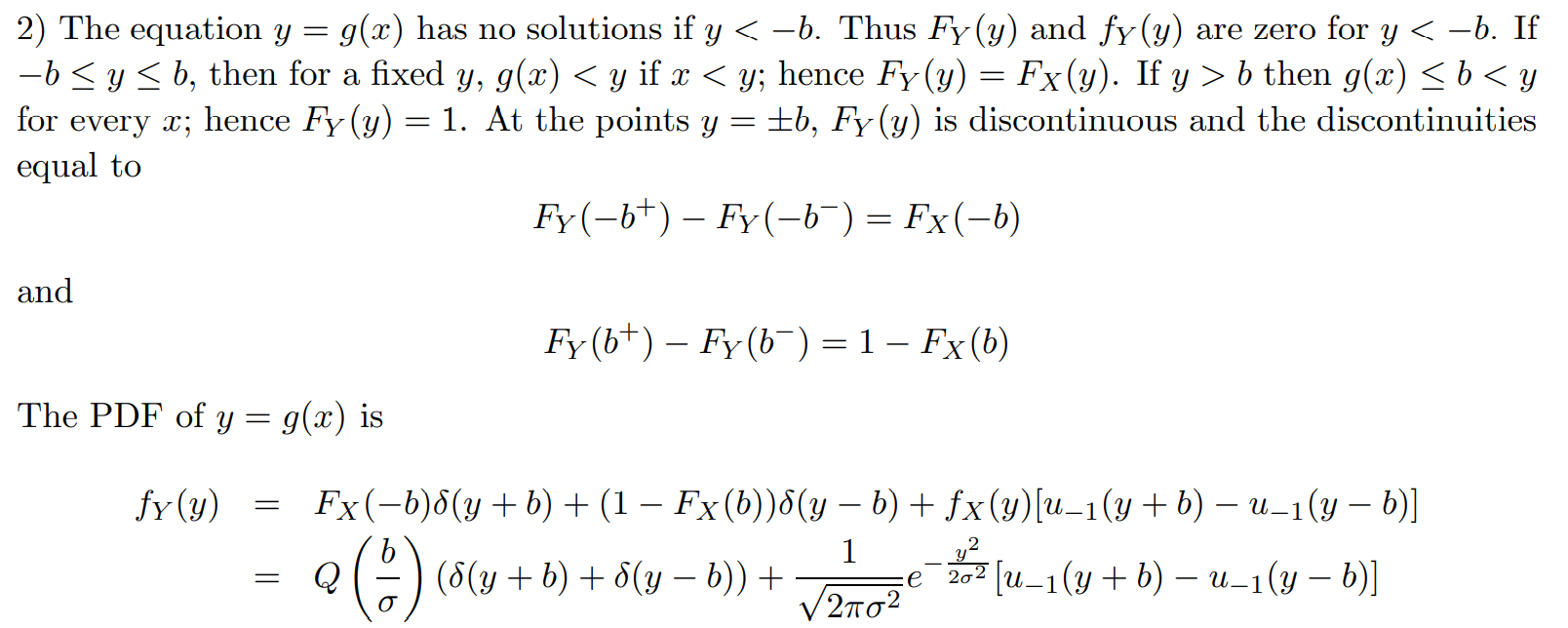


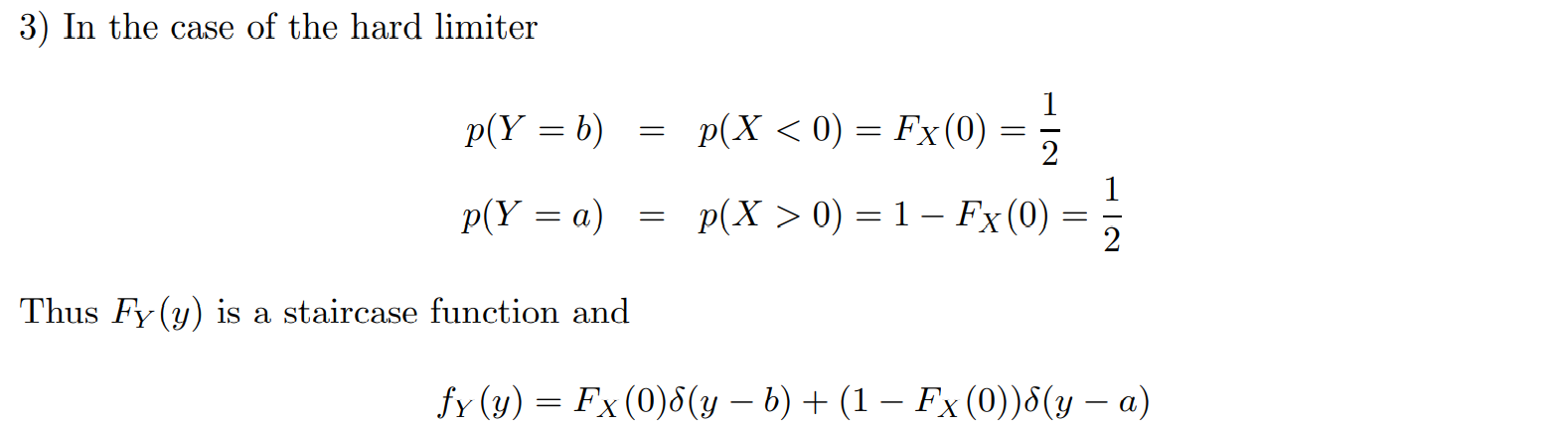
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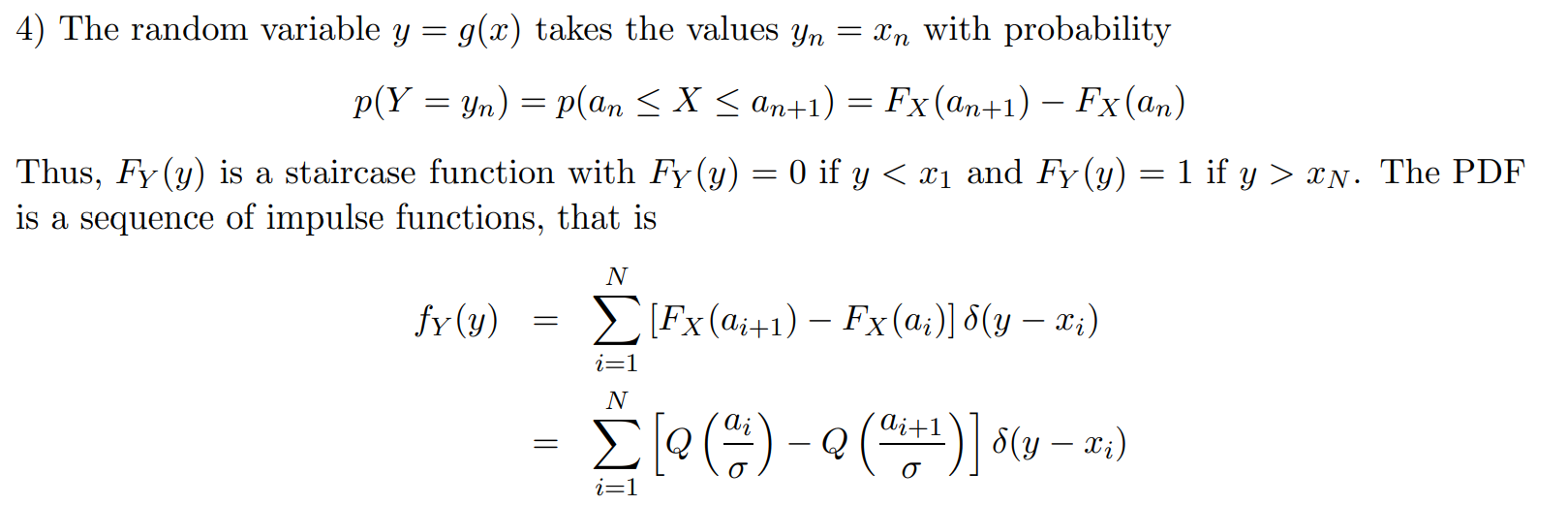


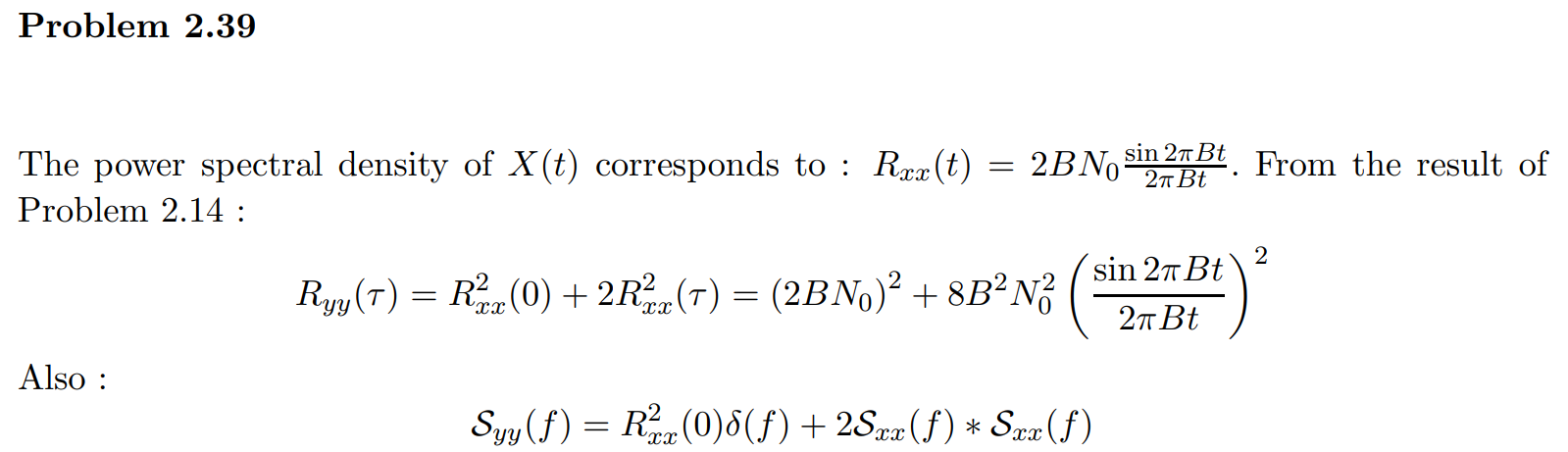


**(5% + 5% + 5% + 5%)**

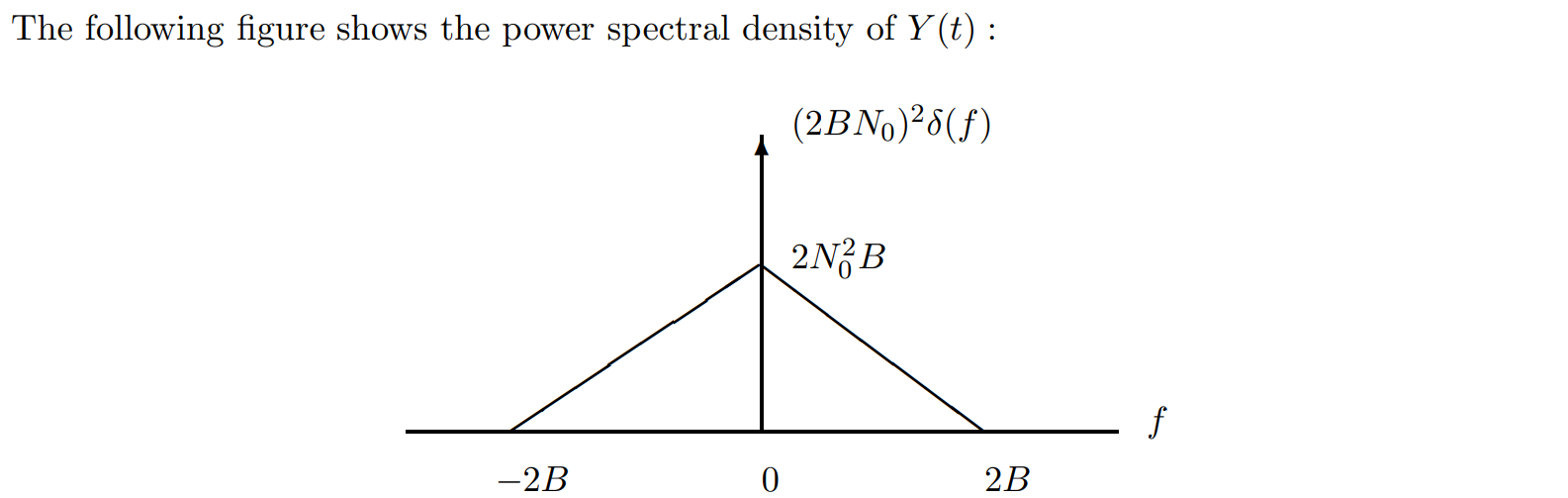






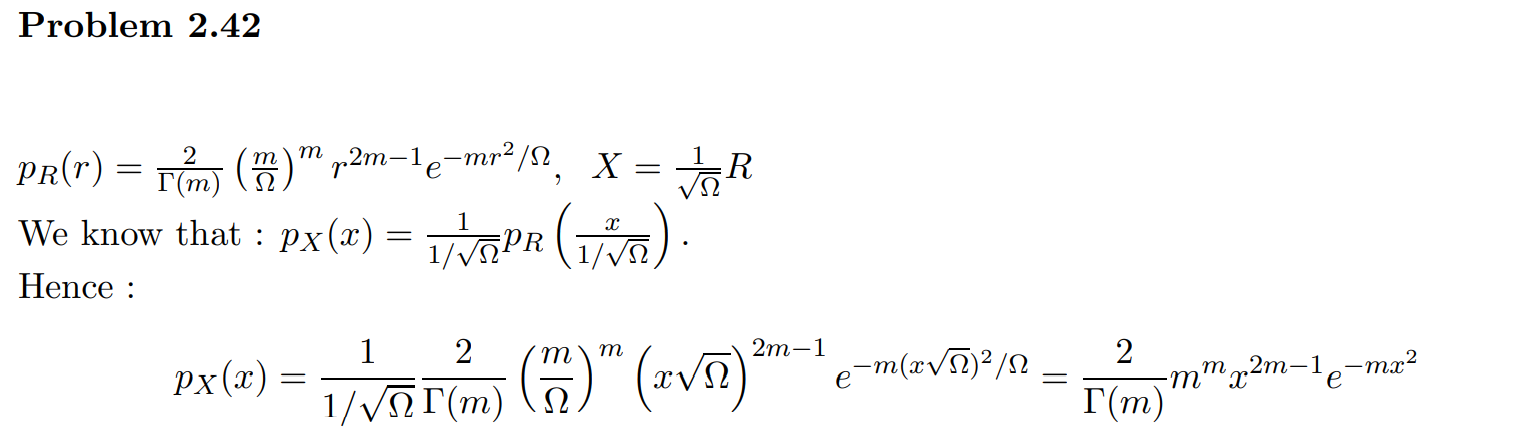


**(10%)**

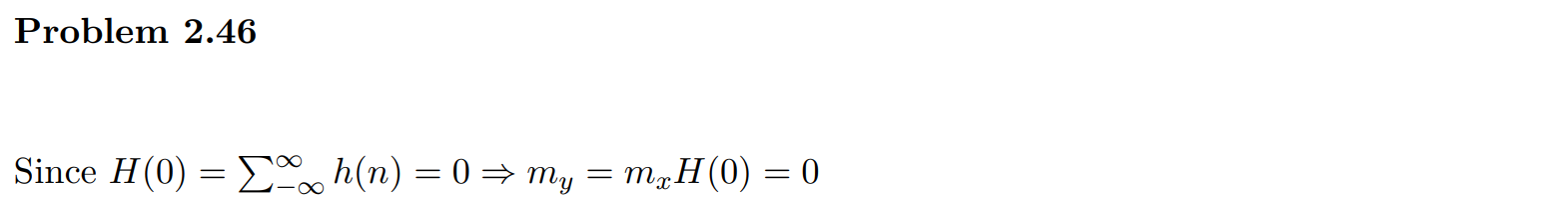


**4 N\_0^2 B**

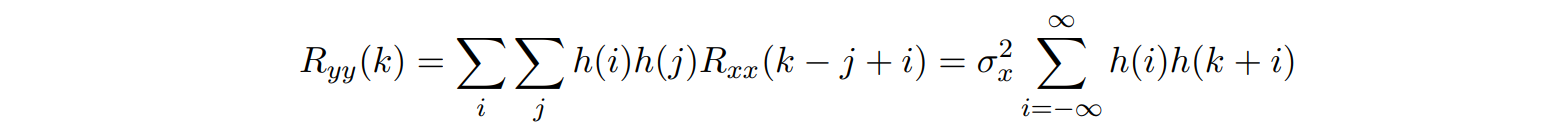
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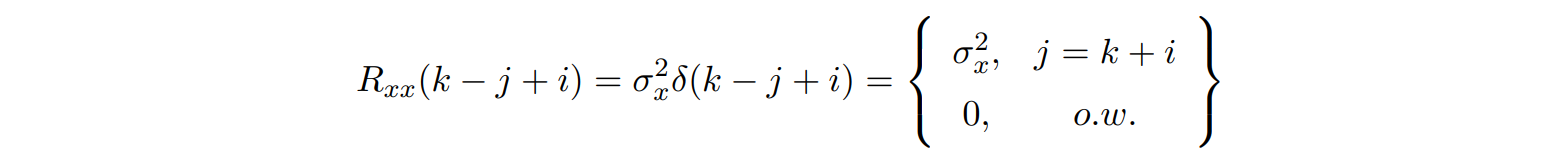
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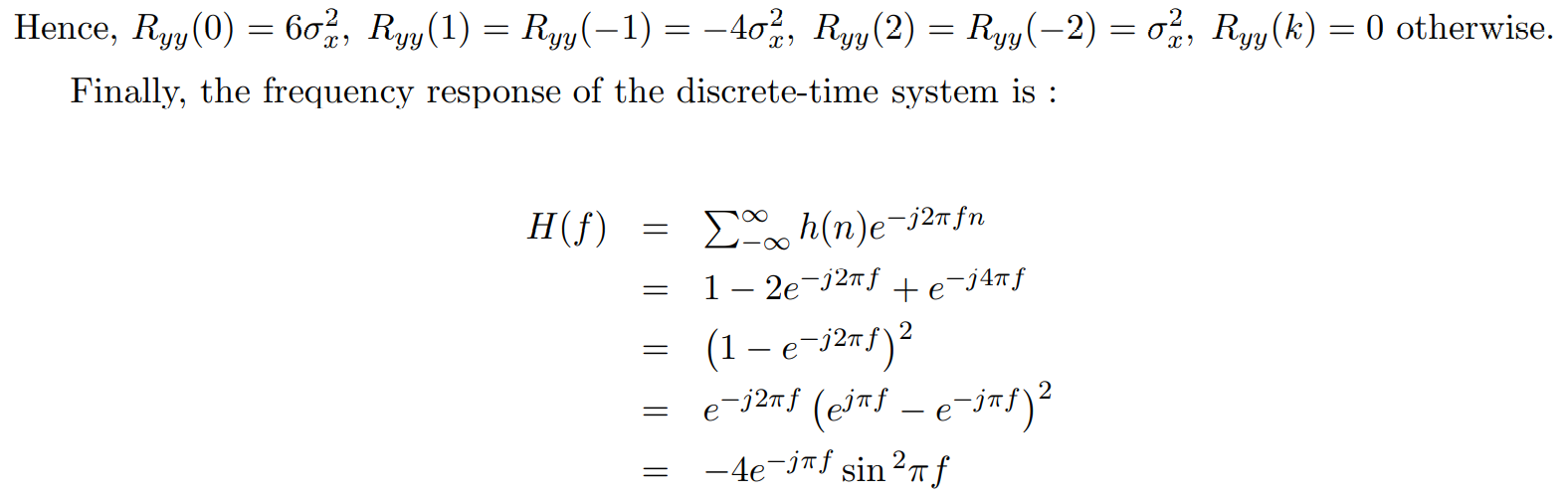


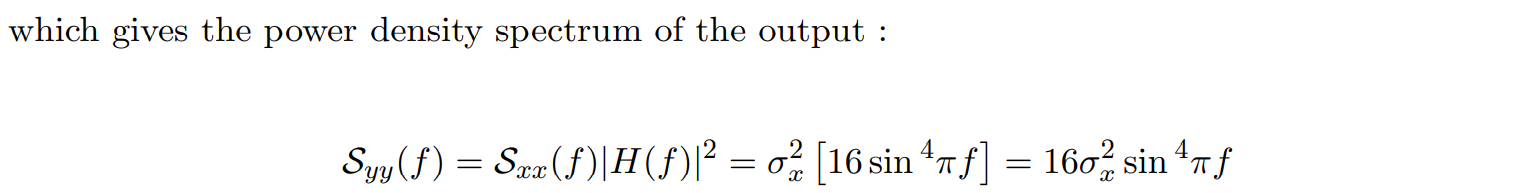




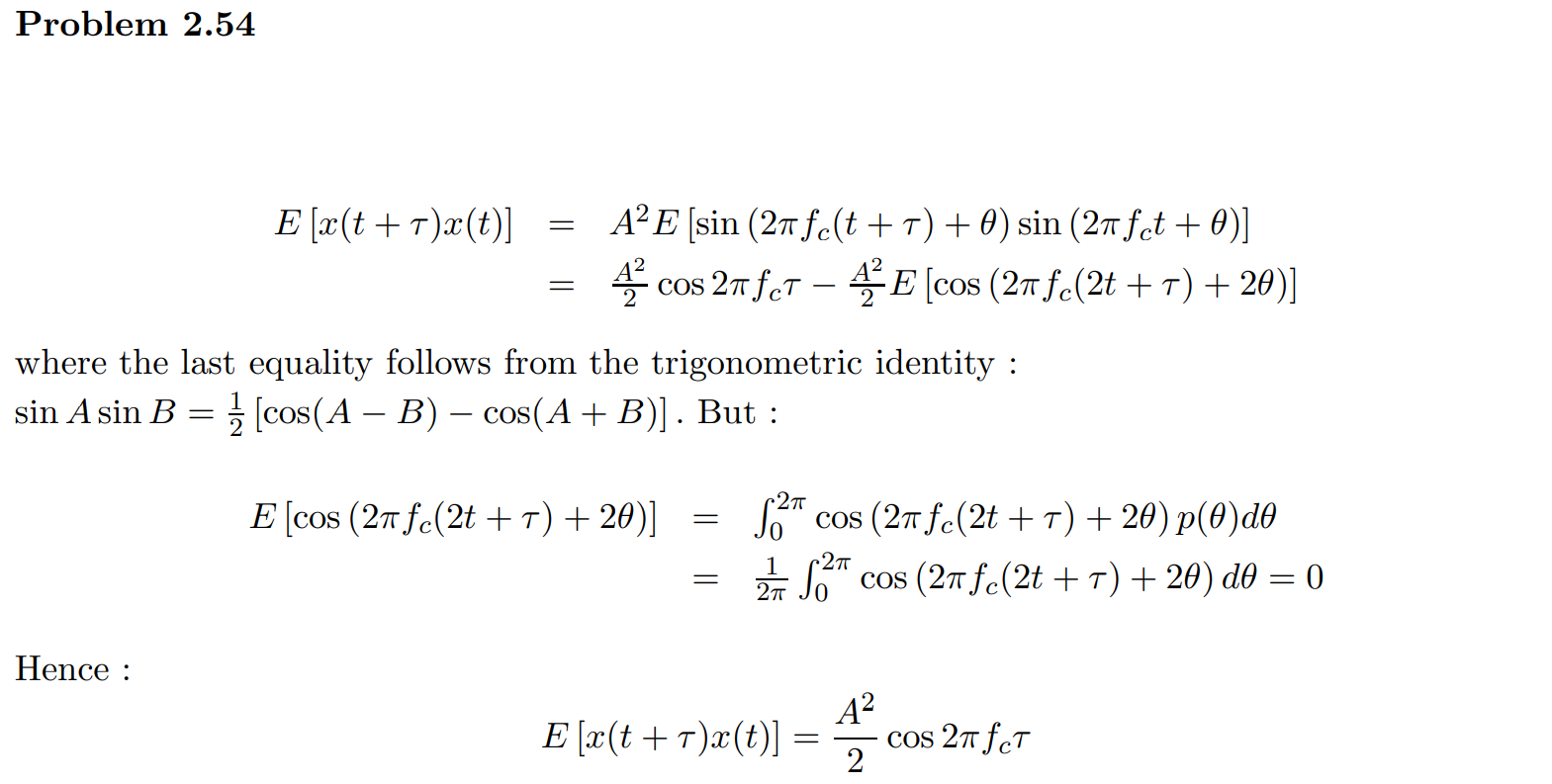








**(10%)**



**Appendix**

**Problem 2.39** is actually a follow-up question of **Problem 2.27** and **Problem 2.41**, so we also provide the solution of these two questions for you reference.

