**Lab1**

**Problem 2.1**

1. We have a non-zero element in rref and this indicates there is no solution for Ax=b.

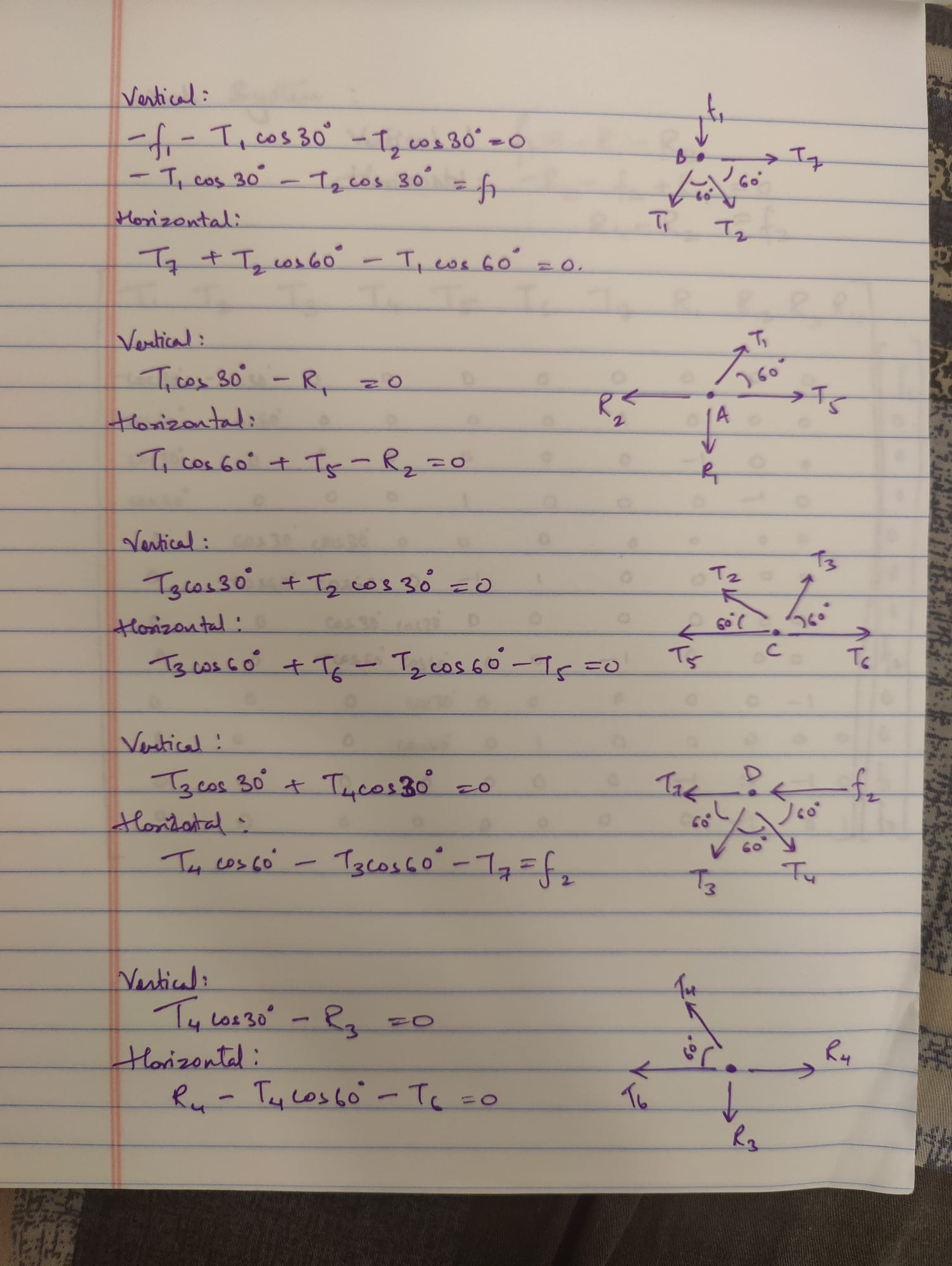
MATLAB’s approximation (A\b) yields the following solution.

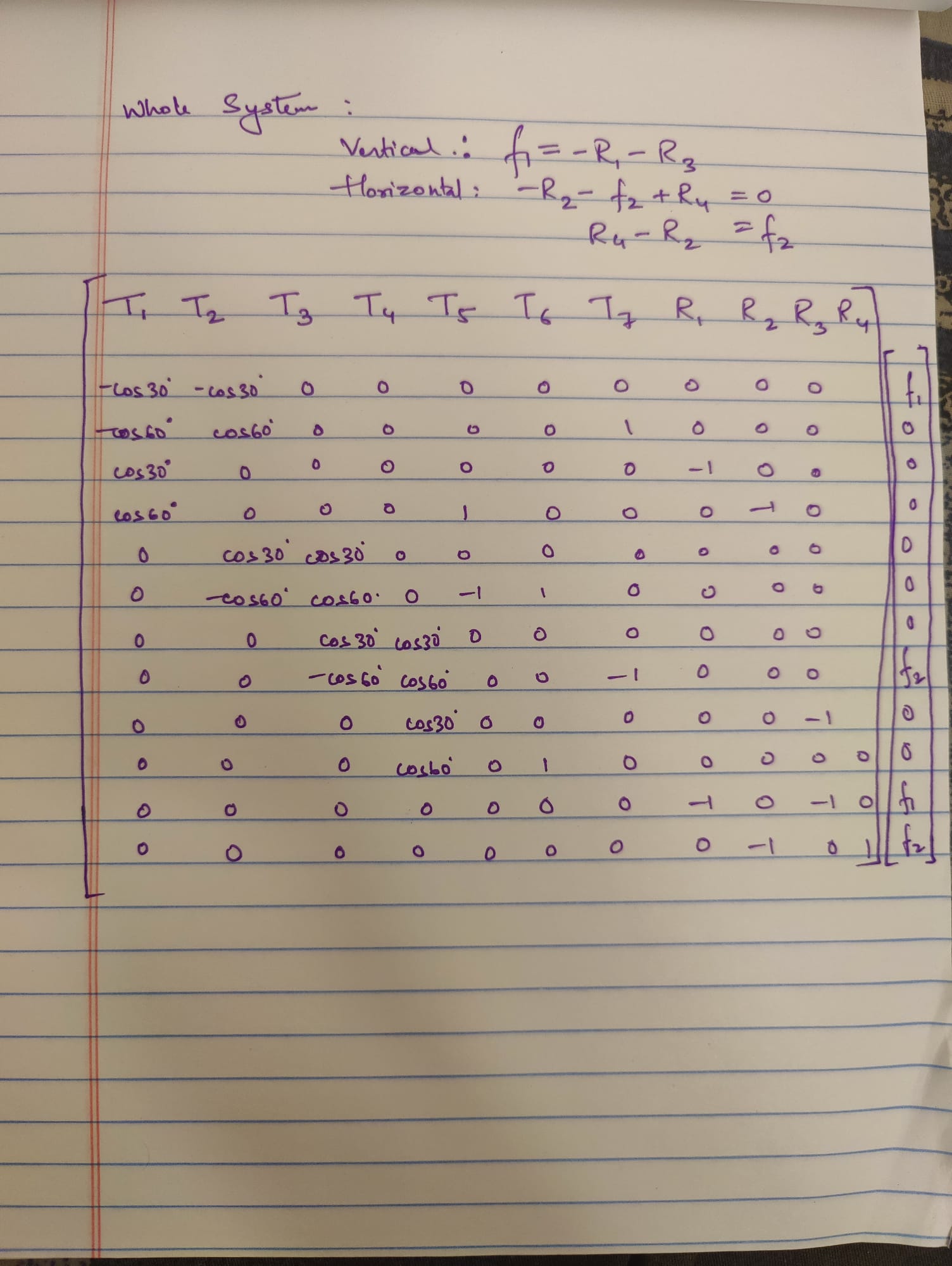
Graphical user interface, text, application

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**Problem 3.1**

1. R4 is missing in the question diagram. Included it and solved.





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2.

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It is clearly visible that T3 and f2 are independent, therefore, change in f2 doesn’t change T3.

3.

If T3 = 1000 then,

* f1 ≈ -316.9873

for any value of f2.

**1b**

**Table

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