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TALLINN UNIVERSITY OF  
TECHNOLOGY

ISS0031 Modeling and Identification  
**Lecture 3: Warm-up Exercise**

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# Exercise on Formulating and Solving Linear Programming Problems

Determine two non-negative rational numbers such that their sum is maximum provided that their difference (first number minus the second number) is greater than or equal to two. In addition, three times the first number plus the second should be less than or equal to 9. Formulate the problem as a linear programming problem and solve it using the graphical method.

