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# Homework 3: Unavoidable errors

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## Problem 1: Roundoff error (20 points)

Perform Gaussian elimination on

$$x_1 + x_2 + x_3 = 1; x_1 + 1.0001x_2 + 2x_3 = 2; x_1 + 2x_2 + 2x_3 = 1;$$

$$a=1;$$

## Problem 2: Relative convergence criteria (15 points)

Description of second code bloc

$$a=2;$$

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