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Gaussian Elimination

Using Gaussian elimination with back substitution, solve the following two systems of equations:

(a)

$$-3x_1 - 7x_2 - 2x_3 = -7,$$

$$-3x_1 + 5x_2 + x_3 = 5,$$

$$-6x_1 - 4x_2 = 2;$$

(b)

$$-x_1 - 2x_2 + 3x_3 = 1,$$

$$-x_1 + 3x_2 - x_3 = -1,$$

$$2x_1 - 5x_2 + 5x_3 = 1.$$

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