Bob & L-box transform themselves

1. Find formulas for the two affine maps which are shown.

2. Show where the L-box is transformed to by

$$A(x) = \begin{bmatrix} 2 & 2 \\ 2 & 2 \end{bmatrix} x + \begin{bmatrix} 4 \\ -3 \end{bmatrix}$$

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