MECH 6325 HW1
$$(= \begin{bmatrix} 2 & 1 \\ 1 & 2 \end{bmatrix} - \begin{bmatrix} 2 & 2 \\ 3 & 4 \end{bmatrix} - \begin{bmatrix} 2 & 2 \\ 4 & 4 \end{bmatrix}$$

$$P = \begin{bmatrix} 1 & 1 \\ 1 & 1 \end{bmatrix}$$

$$X = \begin{bmatrix} -1 \\ 1 \end{bmatrix}, \begin{bmatrix} 1 \\ 1 \end{bmatrix}$$

$$Z = P[XY]$$

$$C = PCP' = \begin{bmatrix} 0 & 3 \end{bmatrix}$$

$$\frac{1}{C^{2}} = \frac{1}{C^{2}}$$

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