

$$\Sigma_1 = \begin{pmatrix} 0.2 & 0.5 \\ 0.2 & 0.3 \\ 0.5 & 0.3 \end{pmatrix}$$

$$\Sigma_2 = \begin{pmatrix} 0.5 & 0.7 & 0.9 \\ 0.3 & 0.9 & 0.3 \\ 0.9 & 0.7 & 0.5 \end{pmatrix}$$

$$\Sigma_3 = \begin{pmatrix} 2 & 0 \\ 0 & 3 \end{pmatrix}$$

$$\Sigma_4 = \begin{pmatrix} 0.5 & 0.7 & -0.9 \\ 0.7 & 0.9 & 0.3 \\ -0.9 & 0.3 & -0.5 \end{pmatrix}$$