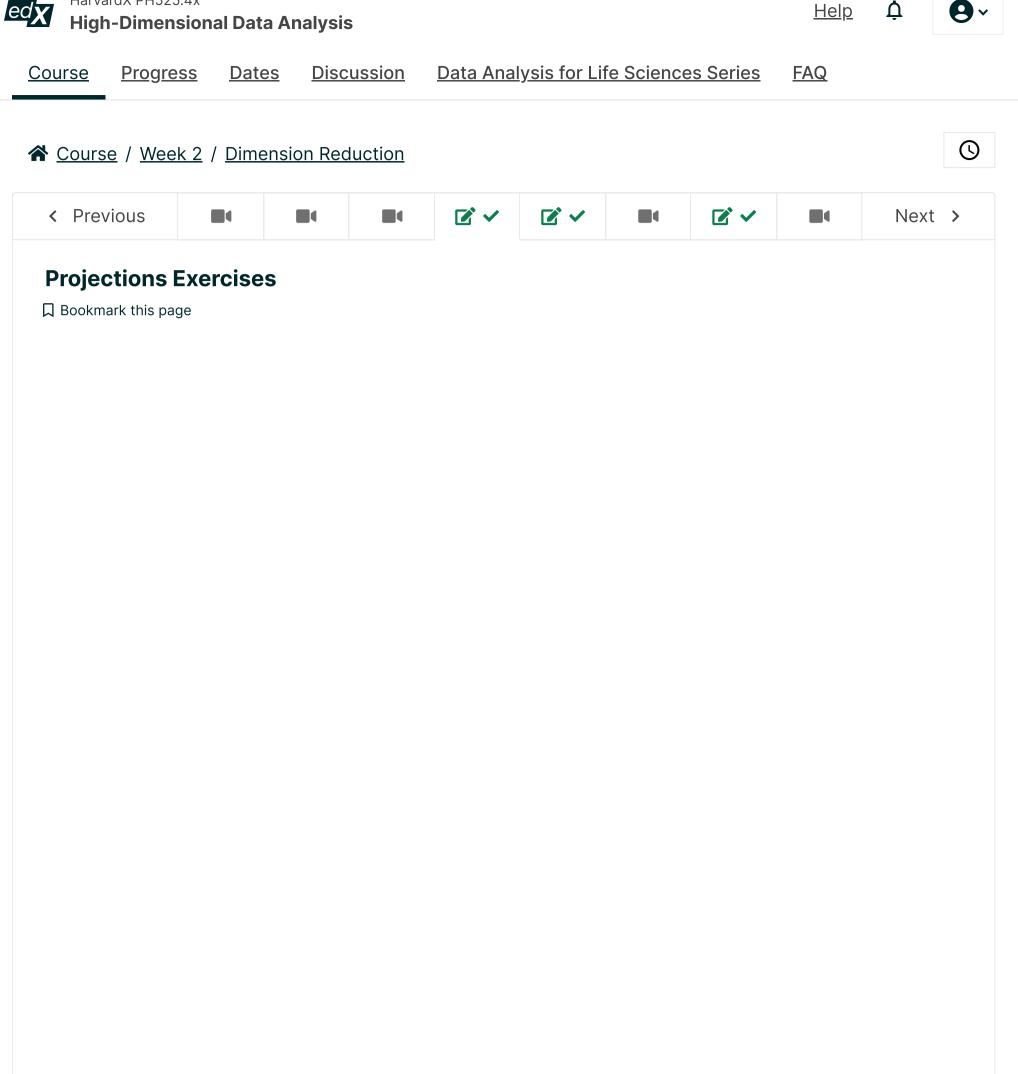


<u>Help</u>



Homework due Nov 13, 2023 10:13 CST Completed

We will continue to use this dataset:

library(Biobase) library(GSE5859Subset) data(GSE5859Subset)

Projections Exercises #1

1/1 point (graded)

Suppose you want to make an MA plot of the first two samples y = geneExpression[,1:2]. Which of the following projections of y gives us new coordinates such that column 2 versus column 1 is an MA plot?

$$egin{array}{ccc} igcap & 1/\sqrt{2} & 1/\sqrt{2} \ 1/\sqrt{2} & -1/\sqrt{2} \ \end{pmatrix}$$

$$igcup_{\mathsf{y}} egin{pmatrix} 1 & 1 \\ 1 & -1 \end{pmatrix}$$

$$\begin{pmatrix} 1 & 1 \\ 1 & -1 \end{pmatrix}$$

$$\begin{pmatrix} 1 & 1 \\ 1 & -1 \end{pmatrix}$$
 y



Submit

Try again (1 attempt remaining) •

Projections Exercise #2

1/1 point (graded)

Say Y is M imes N, in the SVD $Y = UDV^ op$ which of the following is **NOT** correct?

- $\bigcirc \ DV^ op$ are the new coordinates for the projection $U^ op Y$
- igcup UDare the new coordinates for the projection YV
- igodots D are the coordinates of the projection $U^ op Y$
- $\bigcirc \ U^ op Y$ is a projection from an M-dimensional to N-dimensional subspace.



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