

## HW10: Unsupervised learning

Hand in at: <http://www.cs.utah.edu/~hal/handin.pl?course=cs726>. Remember that only PDF submissions are accepted. We encourage using L<sup>A</sup>T<sub>E</sub>X to produce your writeups. See `hw00.tex` for an example of how to do so. You can make a `.pdf` out of the `.tex` by running “`pdflatex hw00.tex`”.

1. What happens to the objective functions for  $K$ -means and PCA as  $K$  increases? Why?