Answers

Of the 4 graphs of Ok and Uk, the case the produces the best result is case (b). The set-point weighting helps control the overall system and further improves the system response.

b) The recommeded method is pole placement. This is because it is the most accurate method. The pole placement can easily determine the values for PO% and Wn. From the, the values will be much more precise compand to the approximation values from Zeighler Nidols approximation. The pros of pole placement is we can make use of the system, insteal perameters are calculated menting them more exact. The pros of Zeigher nichols is that knowledge of the system is not regard, but the introl value contain more versice making the overall system more off, but can be adjusted.