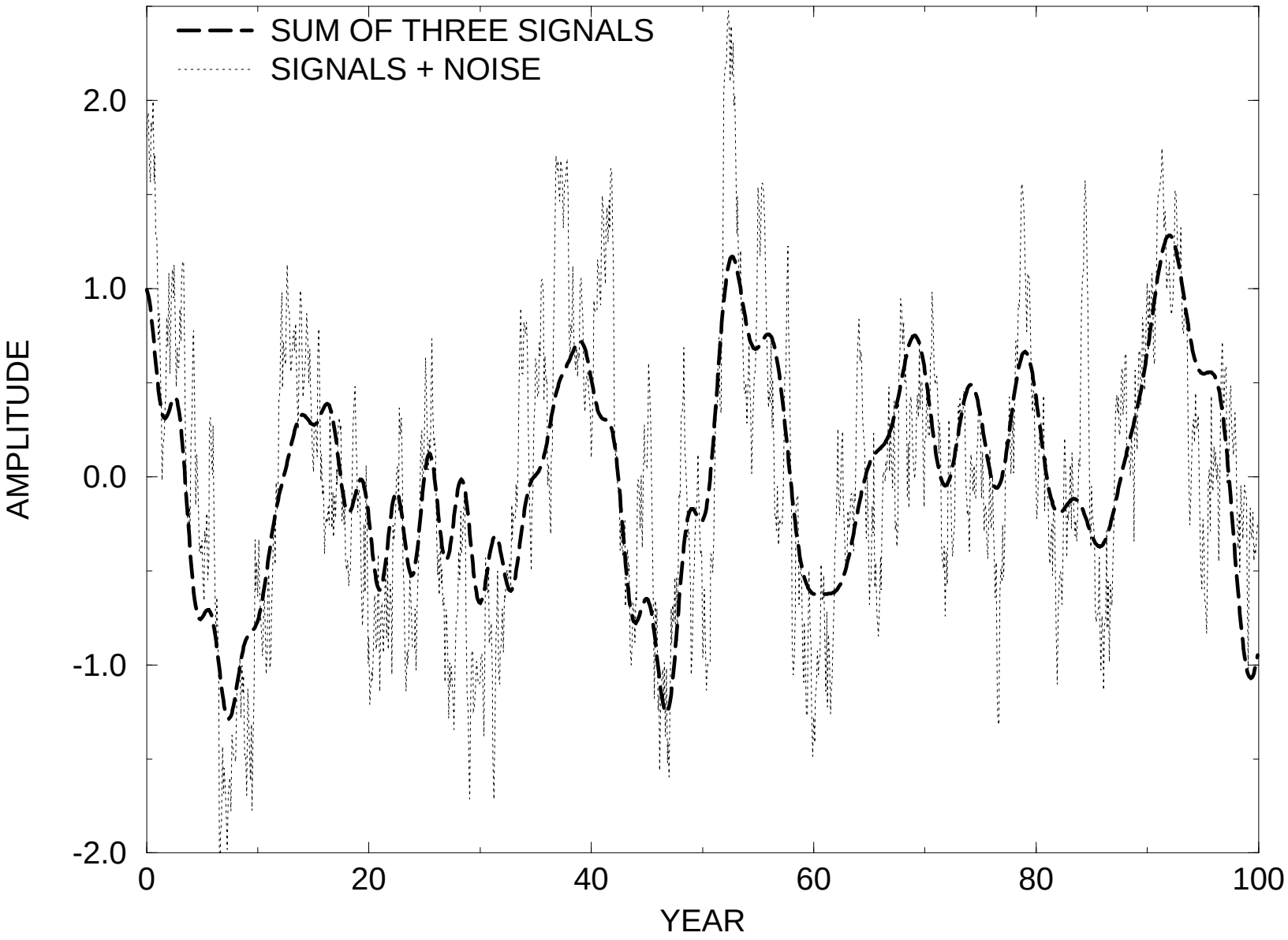TIME SERIES FOR REFERENCE GRIDPOINT