

Name: _____ Score (Out of 5 points):

1. (5 points) Let (X, x_0) and (Y, y_0) be based spaces, and suppose $(X, \{x_0\})$ and $(Y, \{y_0\})$ are good pairs. Use the Mayer–Vietoris sequence to give a new calculation of the homology of the wedge product $X \vee Y$ (defined by identifying x_0 and y_0) in terms of the homology of X and Y . [You may describe the result directly, without using Mayer–Vietoris, in homological degree 0].