Let Eanzu= Liverge to -00. To show that 2-an3 n=2 diverges Het MER. By det. of ¿anin=z diverges to -obtapplied with the real number - M, there exists some NER Such that for now we have an <-M. For such an 1, we thus have -an>M. Thus, for the same N, if NN, Hu -an>M. This shows that forming 1 diverges to + 00.

(3) Prove or disprove: If $\{a_n\}_{n=1}^{\infty}$ diverges to $-\infty$ then $\{-a_n\}_{n=1}^{\infty}$ diverges to $+\infty$.