AUC apCalculus BC

Assignment 1

2. Eventually true over $\mathbb{N}$

PROBLEM 2.1. *Prove that the following properties are true eventually on $n \in \mathbb{N}$ for any given $\epsilon > 0$:*

(1) $n^2 + 6n^7 > \epsilon$.
(2) $4n^8 - 6n^7 > \epsilon$.
(3) $n^8 - n^7 + 1 > \epsilon$.
(4) $\sqrt[5]{n} - 5n^{0.1} - 7 > \epsilon$.