limits of a sequence

Theorem

exercise 3

limits of a sequence

How do find the limits? Sequences are really just functions of the integers n…

Theorem

If $\lim_{x\to\infty} f(x) = L$ and $f(n) = a_n$, where n is an integer, then $\lim_{n\to\infty} a(n) = L$.

exercise 3

Determine if the following two sequences converge or diverge:

(a) $\left\{\dfrac{2^n - 1}{2^n}\right\}_{n=1}^{\infty}$

(b) $\left\{\dfrac{2n^3 - 1}{n^3}\right\}_{n=1}^{\infty}$

rules of limits