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1. Use comparison to determine whether the following series converge or diverge:

(a)
$$\sum_{n=1}^{\infty} \frac{1}{\sqrt{n} + 3^n}$$

(b)
$$\sum_{m=4}^{\infty} \frac{\sqrt[3]{n}}{n-3}$$

2. Use the limit comparison test to determine whether the following series converge or diverge:

(a)
$$\sum_{n=1}^{\infty} \frac{n+1}{\sqrt{n^5+2n}}$$

(b)
$$\sum_{k=1}^{\infty} \frac{1}{\sqrt{k} + \ln k}$$