Q1. Complete the statement by a correct choice.   (**Explain your choice**)

If $\{a_n\}$ converges, then $\sum \frac{1}{a_n}$ ... (Converges,   Diverges,   Indeterminable)

Q2. Find the sum of $\displaystyle\sum_{n=2}^{\infty}\left(\frac{1}{1-n}+\frac{1}{n}\right)$ if it is convergent or explain if it is not.

Final Ans.

Q1. Complete the statement by a correct choice.   (**Explain your choice**)

Suppose $a_n = f(n)$ where $f(x)$ is a positive, continuous, & decreasing function. If $\int_1^\infty f(x)dx = 3$,

then $\left\{\frac{1}{a_n}\right\}$ ...   (Converges,   Diverges,   Indeterminable)

Q2. Find the sum of $\sum_{n=0}^{\infty}(-1)^{n+1}2^n \cdot 3^{1-n}$ if it is convergent or explain if it is not.

Final Ans.