

Each problem is worth 0 points. In the event of an actual quiz, you would have received warning.

1. Determine whether $\sum_{n=1}^{\infty} \frac{1}{3n}$ converges or diverges.

2. Determine whether $\sum_{n=1}^{\infty} \frac{(-1)^n}{3n}$ converges or diverges.

3. Determine whether $\sum_{n=1}^{\infty} \frac{1}{3n^2}$ converges or diverges.

4. Determine whether $\sum_{n=1}^{\infty} \frac{(-1)^{n+1}}{3n^2}$ converges or diverges.

5. Determine whether $\sum_{n=1}^{\infty} \frac{1}{n!}$ converges or diverges.

6. Determine whether $\sum_{n=1}^{\infty} \frac{(-1)^{n-1}}{n!}$ converges or diverges.

7. Determine whether $\sum_{n=1}^{\infty} \frac{1}{\sqrt{n}}$ converges or diverges.

8. Determine whether $\sum_{n=1}^{\infty} \frac{(-1)^n}{\sqrt{n}}$ converges or diverges.

9. Determine whether $\sum_{n=1}^{\infty} \frac{1}{2^n}$ converges or diverges.

10. Determine whether $\sum_{n=1}^{\infty} \left(\frac{-1}{2}\right)^n$ converges or diverges.