방과후 퀴즈 11.2-11.4

6문제, 15분

2025.11.4.화

1. Write the theorem of **integral test, direct comparison test, limit comparison test**.
   integral test

   direct comparison tes

   limit comparison test

2. Determine whether the series is coneverges or diverges.

$$\sum_{n=1}^{\infty} \frac{\sqrt{n+1}-\sqrt{n-1}}{n}$$

3. Determine whether the series is coneverges or diverges.

$$\sum_{n=1}^{\infty} \frac{1}{n\sqrt{lnn}}$$

4. Determine whether the series is coneverges or diverges.

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

5. Determine whether the series is coneverges or diverges.

$$\sum_{n=1}^{\infty} n^2 e^{-n^3}$$

6. Determine whether the series is coneverges or diverges.

$$\sum_{n=1}^{\infty} \sin^2(\frac{1}{n})$$