

QUIZ 5

1. 5 points Decide whether the following series converges or diverges. In either case, indicate which test you are using, and justify your answer carefully.

$$\sum_{n=1}^{\infty} \frac{1}{\sqrt{3n-1}}$$

2. 5 points Decide whether the following series converges or diverges. In either case, indicate which test you are using, and justify your answer carefully.

$$\sum_{n=1}^{\infty} \frac{3}{n^2+1}$$

3. 5 points Decide whether the following series converges or diverges. In either case, indicate which test you are using, and justify your answer carefully.

$$\sum_{n=1}^{\infty} \frac{n!}{100^n}$$

4. 5 points Decide whether the following series converges or diverges. In either case, indicate which test you are using, and justify your answer carefully.

$$\sum_{n=1}^{\infty} \frac{2^n n^n}{(3n+1)^n}$$