

Quiz 8

Time: 15min

1. Find

$$\int_1^3 \frac{dx}{(x-1)^{1/3}}.$$

2. Find an explicit formula for the general term of the sequence

$$\frac{1}{2}, \frac{2}{3}, \frac{3}{4}, \frac{4}{5}, \dots$$

and determine whether or not it converges.

Each part is worth 5 points.