Quiz 11

Question 1. *(5 marks)* Determine whether the sequence is convergent or not.

$$a_n = \frac{(-10)^{n+1}}{n!}$$

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Question 2. *(5 marks)* Determine if the following series converges or not. If it does find the sum.

$$\sum_{n=1}^{6} \frac{1}{n(n+3)}$$

Question 3. *(5 marks)* Use a series to express the repeating decimal 4.17326326326.... as a fraction.