

# Exercises

E7.45 [OF9] Note: Written exam of 12th Jan 2019.

Show that the following series converges

$$\sum_{n=1}^{\infty} \left( \frac{1 \cdot 4 \cdot 7 \cdot 10 \cdots (3n-2)}{3 \cdot 6 \cdot 9 \cdot 12 \cdots (3n)} \right)^2$$

**Solution 1.** [OFB]