

Correction to Exam 3 Review, 2d.

$$\frac{1 \cdot 3 \cdot 5 \cdots (2n+1)}{2 \cdot 4 \cdot 6 \cdots 2n} = \frac{1 \cdot 3 \cdot 5 \cdots (2n+1)}{n! 2^n} = a_n$$

$$= \frac{3}{2} \cdot \frac{5}{4} \cdot \frac{7}{6} \cdots \frac{2n+1}{(2n-2)} \cdot \frac{1}{2n}$$

$> \frac{1}{2n}$  and  $\sum \frac{1}{2n}$  diverges so

the series diverges.