$$\frac{2n+1}{(2n)!} = \frac{2n}{(2n)!} + \frac{1}{(2n)!}$$

Note that 
$$(2n)! = (2n)(2n-1)(2n-2) \cdots 1 = (2n)(2n-1)!$$

So 
$$\frac{2n+1}{(2n)!} = \frac{1}{(2n-1)!} + \frac{1}{(2n)!}$$

So 
$$\lim_{n\to+\infty} \frac{2n+1}{(2n)!} = \lim_{n\to+\infty} \left[ \frac{1}{(2n-1)!} + \frac{1}{(2n)!} \right] = 0+0=0.$$