

Lösungen zu Kapitel 1.6, Binomischer Lehrsatz, Fakultät

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

$$2) n+1$$

$$3) (2n+2)(2n+3)$$

$$4) \frac{k+1}{n-k}$$

$$5) \frac{10}{n+1}$$

$$6) \frac{1}{8(n+1)(2n+3)}$$

$$7) \frac{1}{2} \cdot n \cdot (2n+1)(2n+2)(2n+3)$$

$$8) \frac{\ln 2}{(n+1)}$$

$$9) \frac{9}{(2n+1)(2n+2)}$$

$$10) 2n \cdot (2n-1)(2n-2)(2n-3)!$$

$$11) \frac{n+1}{2(2n+1)}$$