

$$A(x,y) = (5-6xy) \frac{1}{1-xy(3+2xy)}$$

$$A(x,y) = (5-6xy) \sum_{m=0}^{\infty} x^m y^m (3+2xy)^m$$

$$A(x,y) = (5-6xy) \sum_{m=0}^{\infty} x^m y^m \sum_{k=0}^m \binom{m}{k} 3^{m-k} 2^k x^k y^k$$

$$A(x,y) = (5-6xy) \sum_{m=0}^{\infty} \sum_{k=0}^m \binom{m}{k} 3^{m-k} 2^k x^{m+k} y^{m+k}$$

$$A(x,y) = \sum_{m=0}^{\infty} \sum_{k=0}^m \binom{m}{k} 3^{m-k} 2^k (5x^{m+k} y^{m+k} - 6x^{m+k+1} y^{m+k+1})$$

$$(X+Y)^n = \sum_{k=0}^n \binom{n}{k} x^{n-k} y^k$$

$$\frac{1}{1-r} = \sum_{k=0}^{\infty} r^k$$

$$n=j$$

$$n = m+k$$

$$m = n-k$$

$$k = n-m$$

$$n = m+k+1$$

$$m = n-k-1$$

$$k = n-m-1$$