杨辉三角与二项式系数的性质课后作业

- 1.在 $(1-x)^{20}$ 的展开式中,如果第4r项和第r+2项的二项式系数相等,则r=_____.
- 2.已知 $C_{15}^{10} = a, C_{15}^{9} = b$,那么 $C_{16}^{10} =$ ______.
- $3.(a+b)^9$ 的展开式中,二项式系数的最大值是_____.
- $4. \div (a+b)^n$ 的展开式中的第 10 项和第 11 项的二项式系数最大,则 $n = ____$.
- 5.在 $(a+2b)^5$ 的展开式中,二项式系数最大的项是第_______项.
- 6.在 $(2x-3y)^{10}$ 的展开式中,二项式系数的和为______,各项系数的和为______,奇数项的二项式系数和为______.

7.
$$C_{11}^1 + C_{11}^3 + \dots + C_{11}^{11} = \underline{_{n}^0 + C_{n}^1 + C_{n}^2 + \dots + C_{n}^n} = \underline{_{n+1}^0 + C_{n+1}^1 + C_{n+1}^2 + \dots + C_{n+1}^{n+1}} = \underline{_{n+1}^0 + C_{n+1}^1 + C_{n+1}^2 + \dots + C_{n+1}^{n+1}} = \underline{_{n+1}^0 + C_{n+1}^1 + C_{n+1}^2 + \dots + C_{n+1}^{n+1}} = \underline{_{n+1}^0 + C_{n+1}^1 + C_{n+1}^2 + \dots + C_{n+1}^{n+1}} = \underline{_{n+1}^0 + C_{n+1}^1 + C_{n+1}^2 + \dots + C_{n+1}^{n+1}} = \underline{_{n+1}^0 + C_{n+1}^1 + C_{n+1}^2 + \dots + C_{n+1}^{n+1}} = \underline{_{n+1}^0 + C_{n+1}^1 + C_{n+1}^2 + \dots + C_{n+1}^{n+1}} = \underline{_{n+1}^0 + C_{n+1}^1 + C_{n+1}^2 + \dots + C_{n+1}^{n+1}} = \underline{_{n+1}^0 + C_{n+1}^1 + C_{n+1}^2 + \dots + C_{n+1}^n} = \underline{_{n+1}^0 + C_{n+1}^1 + C_{n+1}^2 + \dots + C_{n+1}^n} = \underline{_{n+1}^0 + C_{n+1}^1 + C_{n+1}^2 + \dots + C_{n+1}^n} = \underline{_{n+1}^0 + C_{n+1}^1 + C_{n+1}^2 + \dots + C_{n+1}^n} = \underline{_{n+1}^0 + C_{n+1}^1 + C_{n+1}^2 + \dots + C_{n+1}^n} = \underline{_{n+1}^0 + C_{n+1}^1 + C_{n+1}^2 + \dots + C_{n+1}^n} = \underline{_{n+1}^0 + C_{n+1}^1 + C_{n+1}^2 + \dots + C_{n+1}^n} = \underline{_{n+1}^0 + C_{n+1}^1 + C_{n+1}^2 + \dots + C_{n+1}^n} = \underline{_{n+1}^0 + C_{n+1}^1 + C_{n+1}^2 + \dots + C_{n+1}^n} = \underline{_{n+1}^0 + C_{n+1}^1 + C_{n+1}^2 + \dots + C_{n+1}^n} = \underline{_{n+1}^0 + C_{n+1}^1 + C_{n+1}^2 + \dots + C_{n+1}^n} = \underline{_{n+1}^0 + C_{n+1}^1 + C_{n+1}^2 + \dots + C_{n+1}^n} = \underline{_{n+1}^0 + C_{n+1}^1 + C_{n+1}^2 + \dots + C_{n+1}^n}} = \underline{_{n+1}^0 + C_{n+1}^1 + C_{n+1}^2 + \dots + C_{n+1}^n}} = \underline{_{n+1}^0 + C_{n+1}^1 + C_{n+1}^2 + \dots + C_{n+1}^n}} = \underline{_{n+1}^0 + C_{n+1}^1 + C_{n+1}^1 + \dots + C_{n+1}^n}} = \underline{_{n+1}^0 + C_{n+1}^1 + C_{n+1}^1 + \dots + C_{n+1}^n}} = \underline{_{n+1}^0 + C_{n+1}^1 + C_{n+1}^1 + \dots + C_{n+1}^n}} = \underline{_{n+1}^0 + C_{n+1}^1 + C_{n+1}^1 + \dots + C_{n+1}^n}} = \underline{_{n+1}^0 + C_{n+1}^1 + C_{n+1}^1 + \dots + C_{n+1}^n}} = \underline{_{n+1}^0 + C_{n+1}^1 + \dots + C_{n+1}^n}} = \underline{\phantom{C$$

8.多项式 $(x-1)^4 + 4(x-1)^3 + 6(x-1)^2 + 4(x-1) + 1$ 可化简为______.