Tema Cap 1. Introducere in programare

**Tema :**

**Exercițiul 1.**

1. **= 3 x +1 x**
2. **= 4 x + 4 x**
3. **= 1 x + 0 x + 1 x**
4. **= 1 x + 0 x + 1 x + 1 x + 1 x + 1 x + 0 x + 0 x**
5. **= A x + B x**
6. **= 5 x + 1 x + A(10)0 x + C(12) x**

**Exercițiul 2.**

1. **= 1 x + 2 x**
2. **= 1 x + 0 x + 0 x + 1 x + 1 x**
3. **= B(11) x + D(13) x + 3 x + A(10) x + 0 x +C(12) x**

**Exercițiul 3.**

Prove that *not(p and q) = not p or not q* by writting table of values for both expressions.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| p | q | !p | !q | p and q | !(p and q) | !p or !q |
| true | true | false | false | True | False | false |
| false | true | true | false | False | True | true |
| true | false | false | true | False | True | true |
| false | false | true | true | false | true | true |