Find the Boolean algebraic expressions of the Boolean functions, which have these truth tables:

a.

|  |  |  |
| --- | --- | --- |
| **x** | **y** | **F(x,y)** |
| 0 | 0 | 1 |
| 0 | 1 | 0 |
| 1 | 0 | 1 |
| 1 | 1 | 0 |

b.

|  |  |  |  |
| --- | --- | --- | --- |
| **x1** | **x2** | **x3** | **y** |
| 1 | 1 | 1 | 0 |
| 1 | 1 | 0 | 0 |
| 1 | 0 | 1 | 0 |
| 1 | 0 | 0 | 1 |
| 0 | 1 | 1 | 0 |
| 0 | 1 | 0 | 1 |
| 0 | 0 | 1 | 0 |
| 0 | 0 | 0 | 1 |

c.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **x** | **y** | **z** | **F** | **G** |
| 1 | 1 | 1 | 0 | 0 |
| 1 | 1 | 0 | 0 | 1 |
| 1 | 0 | 1 | 1 | 0 |
| 1 | 0 | 0 | 0 | 0 |
| 0 | 1 | 1 | 0 | 0 |
| 0 | 1 | 0 | 0 | 1 |
| 0 | 0 | 1 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |