

3)

$$1. f_1(A) = A + \bar{A} :$$

for

$$A = T : A + \bar{A} = \text{True} + \text{False} = T$$

$$A = F : A + \bar{A} = \text{False} + \text{True} = T$$

Matches in the table : $[T, T]$

$$2. f_2(A) = A :$$

for

$$A = \text{True} : A = \text{True}$$

for

$$A = \text{False} : A = \text{False}$$

Matches in the table : $[T, F]$

$$3. f_3(A) = \bar{A}$$

$$A = \text{True} : \bar{A} = \text{false}$$

for

$$A = \text{False} : \bar{A} = \text{True}$$

Matches : $[F, T]$

$$4. f_4(A) = A\bar{A} :$$

for

$$A = \text{True} : A\bar{A} = \text{True} \cdot \text{false} = \text{false}$$

for

$$A = \text{false} : A\bar{A} = \text{false} \cdot \text{true} = \text{false}$$

Matches : $[F, F]$

$f_1(A)$	$A + \bar{A}$	T	T
$f_2(A)$	A	T	F
$f_3(A)$	\bar{A}	F	T
$f_4(A)$	$A\bar{A}$	F	F