10+20 = 30	Yes	True
2 times an integer is always even	Yes	True
4 < 5	Yes	True
2 + 2	No	
x * y is odd	No	
5 + 1 is odd	Yes	False

Q2 B

A || B	A = TRUE, B = TRUE	TRUE
A || B	A = TRUE, B = FALSE	TRUE
A || B	A = FALSE, B = TRUE	TRUE
A || B	A = FALSE, B = FALSE	FALSE

Q2 C

A && !B	A = TRUE, B = TRUE	FALSE
A || !B	A = TRUE, B = FALSE	TRUE
!(A && B)	A = FALSE, B = TRUE	TRUE
!(A || B)	A = FALSE, B = FALSE	TRUE

Q3

A) milk || cheese
B) milk && cheese
D) milk && !cheese
F) !(milk && cheese)
H) !milk || !cheese
I) milk || cheese && !(milk && cheese)

Q4

A)

p	q	!q	p && !q
T	T	F	F
T	F	T	T
F	T	F	F
F	F	T	F

B)

p	q	!p	!q	!p || !q
T	T	F	F	F
T	F	F	T	T
F	T	T	F	T
F	F	T	T	T

Q5)

A)

MILK	CHEESE	MILK || CHEESE
T	T	T
T	F	T
F	T	T
F	F	F

B)

MILK	CHEESE	MILK && CHEESE
T	T	T
T	F	F
F	T	F
F	F	F

C)

MILK	EGGS	!EGGS	MILK && !EGGS
T	T	F	F
T	F	T	T
F	T	F	F
F	F	T	F

D)

MILK	CHEESE	!MILK && CHEESE
T	T	F
T	F	F
F	T	T
F	F	F

E)

MILK	CHEESE	MILK || CHEESE	!(MILK || CHEESE)
T	T	T	F
T	F	T	F
F	T	T	F
F	F	F	T

F)

MILK	CHEESE	!(MILK && CHEESE)
T	T	F
T	F	T
F	T	T
F	F	T

G)

MILK	CHEESE	!MILK	!CHEESE	!MILK && !CHEESE
T	T	F	F	F
T	F	F	T	F
F	T	T	F	F
F	F	T	T	T

H)

MILK	CHEESE	!MILK || !CHEESE
T	T	F
T	F	T
F	T	T
F	F	T