Question 1: What is the truth table for the expression:

A and not (B and not C)

Answer:

A	B	C	Q
0	0	0	0
0	0	1	0
0	1	0	0
0	1	1	0
1	0	0	1
1	0	1	1
1	1	0	0
1	1	1	1

Question 2: What is the truth table for the expression:

not A and B and C

Answer:

A	B	C	Q
0	0	0	0
0	0	1	0
0	1	0	0
0	1	1	1
1	0	0	0
1	0	1	0
1	1	0	0
1	1	1	0

Question 3: What is the truth table for the expression:

not (A and not B) and C

Answer:

A	B	C	Q
0	0	0	0
0	0	1	1
0	1	0	0
0	1	1	1
1	0	0	0
1	0	1	0
1	1	0	0
1	1	1	1

Question 4: What is the truth table for the expression:

A and B and not C

Answer:

A	B	C	Q
0	0	0	0
0	0	1	0
0	1	0	0
0	1	1	0
1	0	0	0
1	0	1	0
1	1	0	1
1	1	1	0

Question 5: What is the truth table for the expression:

not A and not B

Answer:

A	B	Q
0	0	1
0	1	0
1	0	0
1	1	0

Question 6: What is the truth table for the expression:

A and not (not B)

Answer:

A	B	Q
0	0	0
0	1	0
1	0	0
1	1	1

Question 7: What is the truth table for the expression:

not (A and B) and not C

Answer:

A	B	C	Q
0	0	0	1
0	0	1	0
0	1	0	1
0	1	1	0
1	0	0	1
1	0	1	0
1	1	0	0
1	1	1	0

Question 8: What is the truth table for the expression:

not (A and B) and not C

Answer:

A	B	C	Q
0	0	0	1
0	0	1	0
0	1	0	1
0	1	1	0
1	0	0	1
1	0	1	0
1	1	0	0
1	1	1	0

Question 9: What is the truth table for the expression:

not (A and B)

Answer:

A	B	Q
0	0	1
0	1	1
1	0	1
1	1	0

Question 10: What is the truth table for the expression:

A and not (B and not C)

Answer:

A	B	C	Q
0	0	0	0
0	0	1	0
0	1	0	0
0	1	1	0
1	0	0	1
1	0	1	1
1	1	0	0
1	1	1	1

Question 11: What is the truth table for the expression:

not (A and not (B))

Answer:

A	B	Q
0	0	1
0	1	1
1	0	0
1	1	1

Question 12: What is the truth table for the expression:

not (A and B) and not C

Answer:

A	B	C	Q
0	0	0	1
0	0	1	0
0	1	0	1
0	1	1	0
1	0	0	1
1	0	1	0
1	1	0	0
1	1	1	0

Question 13: What is the truth table for the expression:

A and not (B and not C)

Answer:

A	B	C	Q
0	0	0	0
0	0	1	0
0	1	0	0
0	1	1	0
1	0	0	1
1	0	1	1
1	1	0	0
1	1	1	1

Question 14: What is the truth table for the expression:

A and not (not B and C)

Answer:

A	B	C	Q
0	0	0	0
0	0	1	0
0	1	0	0
0	1	1	0
1	0	0	1
1	0	1	0
1	1	0	1
1	1	1	1

Question 15: What is the truth table for the expression:

A and B

Answer:

A	B	Q
0	0	0
0	1	0
1	0	0
1	1	1

Question 16: What is the truth table for the expression:

A and not (B)

Answer:

A	B	Q
0	0	0
0	1	0
1	0	1
1	1	0

Question 17: What is the truth table for the expression:

A and not (not B)

Answer:

A	B	Q
0	0	0
0	1	0
1	0	0
1	1	1

Question 18: What is the truth table for the expression:

A and not B and C

Answer:

A	B	C	Q
0	0	0	0
0	0	1	0
0	1	0	0
0	1	1	0
1	0	0	0
1	0	1	1
1	1	0	0
1	1	1	0

Question 19: What is the truth table for the expression:

A and not (B and C)

Answer:

A	B	C	Q
0	0	0	0
0	0	1	0
0	1	0	0
0	1	1	0
1	0	0	1
1	0	1	1
1	1	0	1
1	1	1	0

Question 20: What is the truth table for the expression:

not (A and B)

Answer:

A	B	Q
0	0	1
0	1	1
1	0	1
1	1	0