

# Task 1

- 1. Complete the truth tables for the logic gates below and type their names into the boxes.
- 2. Drag the correct Boolean expression from the middle panel to the correct gate.

A

B



Q

Name:

Boolean Expression:

| A | B | Q |
|---|---|---|
| 0 | 0 |   |
| 0 | 1 |   |
| 1 | 0 |   |
| 1 | 1 |   |

A

B



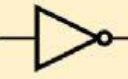
Q

Name:

Boolean Expression:

| A | B | Q |
|---|---|---|
|   |   |   |
|   |   |   |
|   |   |   |
|   |   |   |

A



Q

Name:

Boolean Expression:

| A | Q |
|---|---|
| 0 |   |
| 1 |   |

A

B



Q

Name:

Boolean Expression:

| A | B | Q |
|---|---|---|
|   |   |   |
|   |   |   |
|   |   |   |
|   |   |   |

Q = A + B

Q = A ⊕ B

Q = A . B

Q =  $\overline{A}$