




A diagram illustrating the addition of two squares. It shows a square with a diagonal line from the bottom-left to the top-right, followed by a plus sign in a small square, followed by another square with a diagonal line from the bottom-left to the top-right, followed by an equals sign.

A diagram illustrating the addition of two squares. It shows two squares, each with a diagonal line from the bottom-left to the top-right corner. A small square containing a plus sign (+) is placed between the two squares. To the right of the second square is an equals sign (=).

A diagram illustrating the addition of two squares. On the left, a square with a diagonal line from the top-left to the bottom-right is shown. To its right is a small square containing a plus sign (+). To the right of the plus sign is another square, identical to the first one, with a diagonal line from the top-left to the bottom-right. To the right of this second square is an equals sign (=).

A diagram illustrating the addition of a self-loop to a square node. On the left, a square node has a curved arrow starting from its top-right corner and ending at its top-left corner, representing a self-loop. This is followed by a plus sign in a small square. To the right of the plus sign is another square node with a curved arrow starting from its bottom-left corner and ending at its bottom-right corner. This is followed by an equals sign.

   =

$$\square + \square^+ = \square^{\diagdown}$$

$$\text{[Square with counter-clockwise arrow]} + \text{[Square with +]} - \text{[Square with horizontal line]} =$$

$$\square + \square - \square =$$

$$\square_{\text{ccw}} \boxplus = \square_{\text{v}}$$

A diagram illustrating the multiplication of a vertical line by a square with a plus sign. On the left is a vertical line passing through a square. To its right is a small square containing a plus sign. An arrow points from this small square to a larger square on the right. An equals sign follows the larger square.

$$\square + \square =$$

$$\begin{array}{|c|} \hline \\ \hline \end{array} \quad \begin{array}{|c|} \hline + \\ \hline \end{array} \quad \begin{array}{|c|} \hline \\ \hline \end{array} =$$

$$\begin{array}{|c|} \hline \\ \hline \end{array} \oplus \begin{array}{|c|} \hline + \\ \hline \end{array} = \begin{array}{|c|} \hline \\ \hline \end{array}$$

$$\begin{array}{|c|} \hline \square \\ \hline \end{array} + \begin{array}{|c|} \hline + \\ \hline \end{array} = \begin{array}{|c|} \hline \square \\ \hline \end{array}$$




$$\square + \square = \square$$

Diagram illustrating the relationship between the square and the square with a diagonal line through it, showing that the square is equal to the square with a diagonal line through it.

$$\begin{array}{|c|} \hline \square \\ \hline \end{array} \quad \begin{array}{|c|} \hline + \\ \hline \end{array} \quad \begin{array}{|c|} \hline \square \\ \hline \end{array} =$$

$$\begin{array}{|c|} \hline \\ \hline \end{array} \oplus \begin{array}{|c|} \hline + \\ \hline \end{array} = \begin{array}{|c|} \hline \\ \hline \end{array}$$

$$\square + \square = \square$$

   =

$$\square_{\diagup} \oplus \square_{\diagdown} = \square$$

$$\square_{\diagdown} \oplus \square_{\diagup} = \square$$

$$\square_{\diagdown} \oplus \square_{\diagdown} = \square$$

$$\square_{\diagup} \oplus \square_{\diagup} = \square$$

$$\square_{\curvearrowright} \oplus \square_{\curvearrowleft} = \square_{\curvearrowright}$$

$$\square_{\curvearrowleft} \oplus \square_{\curvearrowright} = \square_{\curvearrowright}$$

$$\square_{\diagup} \oplus \square = \square_{\diagup}$$

$$\square \oplus \square_{\diagup} = \square_{\diagup}$$

$$\square_{\diagdown} \oplus \square_{\diagup} = \square_{\curvearrowright}$$

$$\square_{\diagup} \oplus \square_{\diagdown} = \square_{\curvearrowright}$$

$$\square_{\text{H}} \oplus \square_{\curvearrowleft} = \square_{\text{V}}$$

$$\square_{\curvearrowleft} \oplus \square_{\text{H}} = \square_{\text{V}}$$

$$\square \oplus \square_{\text{H}} = \square_{\text{H}}$$

$$\square_{\text{H}} \oplus \square = \square_{\text{H}}$$

$$\square_{\curvearrowright} \oplus \square_{\curvearrowleft} = \square_{\curvearrowright}$$

$$\square_{\curvearrowleft} \oplus \square_{\curvearrowright} = \square_{\curvearrowright}$$

$$\square_{\curvearrowleft} \oplus \square_{\text{V}} = \square_{\text{H}}$$

$$\square_{\text{V}} \oplus \square_{\curvearrowleft} = \square_{\text{H}}$$

$$\square \oplus \square_{\curvearrowleft} = \square_{\curvearrowright}$$

$$\square_{\curvearrowleft} \oplus \square = \square_{\curvearrowright}$$

$$\square_{\text{V}} \oplus \square_{\text{V}} = \square$$

$$\square_{\text{H}} \oplus \square_{\text{H}} = \square$$

$$\square_{\text{V}} \oplus \square = \square_{\text{V}}$$

$$\square \oplus \square_{\text{V}} = \square_{\text{V}}$$

$$\square_{\curvearrowleft} \oplus \square_{\diagdown} = \square_{\diagup}$$

$$\square_{\diagdown} \oplus \square_{\curvearrowleft} = \square_{\diagup}$$

$$\square_{\text{H}} \oplus \square_{\text{V}} = \square_{\curvearrowright}$$

$$\square_{\text{V}} \oplus \square_{\text{H}} = \square_{\curvearrowright}$$

$$\square \oplus \square_{\diagdown} = \square_{\diagdown}$$

$$\square_{\diagdown} \oplus \square = \square_{\diagdown}$$

$$\square_{\curvearrowleft} \oplus \square_{\diagup} = \square_{\diagdown}$$

$$\square_{\diagup} \oplus \square_{\curvearrowleft} = \square_{\diagdown}$$