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|------------|-----------------------|------------|-----------------------|--------------------|-------------------------------|
| \vee | <code>\vee</code> | \cdot | <code>\cdot</code> | \triangleleft | <code>\triangleleft</code> |
| \wedge | <code>\wedge</code> | \diamond | <code>\diamond</code> | \triangleright | <code>\triangleright</code> |
| \amalg | <code>\amalg</code> | \bullet | <code>\bullet</code> | \bigtriangledown | <code>\bigtriangledown</code> |
| \cap | <code>\cap</code> | \circ | <code>\circ</code> | \bigtriangleup | <code>\bigtriangleup</code> |
| \cup | <code>\cup</code> | \bigcirc | <code>\bigcirc</code> | $*$ | <code>\ast</code> |
| \uplus | <code>\uplus</code> | \odot | <code>\odot</code> | \star | <code>\star</code> |
| \sqcap | <code>\sqcap</code> | \ominus | <code>\ominus</code> | \times | <code>\times</code> |
| \sqcup | <code>\sqcup</code> | \oplus | <code>\oplus</code> | \div | <code>\div</code> |
| \dagger | <code>\dagger</code> | \oslash | <code>\oslash</code> | \backslash | <code>\setminus</code> |
| \ddagger | <code>\ddagger</code> | \otimes | <code>\otimes</code> | \wr | <code>\wr</code> |
| \land | <code>\land</code> | \pm | <code>\pm</code> | | |
| \lor | <code>\lor</code> | \mp | <code>\mp</code> | | |

These commands produce the symbols for various binary operations. Binary operations are one of T_EX's classes of math symbols. T_EX puts different amounts of space around different classes of math symbols. When T_EX needs to break a line of text within a math formula, it will consider placing the break after a binary operation—but only if the operation is at the outermost level of the formula, i.e., not enclosed in a group.

In addition to these commands, T_EX also treats ‘+’ and ‘-’ as binary operations. It considers ‘/’ to be an ordinary symbol, despite the fact that mathematically it is a binary operation, because it looks better with less space around it.

Example:

```


$$z = x \div y \quad \text{if and only if} \quad z \times y = x \text{ and } y \neq 0$$


```

produces:

$$z = x \div y \quad \text{if and only if} \quad z \times y = x \text{ and } y \neq 0$$