Four 4's

Use four 4's to make equations that equal all the numbers from 1-50.

You must use each 4 exactly once, and can use any operation. You can also use 'square root' and other algebraic symbols.

For example:

\[ \frac{4}{4} + (4 - 4) = 1 \]

\[ 4 + 4 + \frac{4}{4} = 9 \]

Parentheses ( ) Operations +, -, \times, \div

Fractions \( \frac{4}{4} \)

Exponents \( 4^4 \)

Square root \( \sqrt{4} \)

Factorial \( 4! = 4 \times 3 \times 2 \times 1 \)

Absolute value \( |-4| = 4 \)