

RPN Challenge 1

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Using each number 2, 3, 4, 5 exactly once, and any of the operators + - * \ ^ any number of times:

1. What expression yields the largest possible number?
2. What expression yields the smallest (most negative) number?
3. How close can you get to $e = 2.71828\dots$?
4. What is the smallest positive integer you *cannot* construct?

Examples (These are not answers!):

1. $2\ 3\ 4\ 5\ *\ *\ * = 120$
2. $5\ 4\ 3\ +\ - = -2$
3. $4\ 5\ *\ 3\ 2\ ^\wedge\ /\ = 2.222$
4. $4\ 2\ ^\wedge\ 3\ 5\ *\ - = 1$