

Cal Poly Department of Mathematics

Puzzle of the Week

April 21 - May 5, 2016

Which is larger:

$$-1 + \frac{2^1}{0!} + \frac{2^2}{1!} + \frac{2^3}{2!} + \frac{2^4}{3!} + \dots$$

or

$$\frac{1^2}{0!} + \frac{2^2}{1!} + \frac{3^2}{2!} + \frac{4^2}{3!} + \dots$$

??

(Note: each series can be computed exactly...)

Solutions should be submitted to Morgan Sherman:

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before the due date above. Those with correct and complete solutions will have their names listed on the puzzle's web site (see below) as well as in the next email announcement. Anybody associated to Cal Poly is welcome to make a submission.

<http://www.calpoly.edu/~sherman1/puzzleoftheweek>