

January 29, 2016

Order of Operations

- ① Simplify inside Grouping Symbols $(), [], \{ \}, |a|, \sqrt{a}, \frac{a}{b}$
- ② Evaluate Exponents $3^3 = 27, x^2 = x \cdot x$

Does not mean $2x$!
 $2x \neq x^2$
 $2 \cdot x \neq x \cdot x$
- ③ Multiply or Divide from left to right which ever operation comes first.
- ④ Addition or subtraction from left to right which ever comes first.

Jan 29-9:52 AM

1.2 I to R

#7) $\frac{-24}{(-6)} \cdot (-1) = 4 \cdot (-1) = -4$

$\frac{-24}{(-6) \cdot (-1)} = \frac{4}{(-1)} = -4$

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#33) $9 + (9-6)^3 - 5$

$9 + (3)^3 - 5$ $(3)^3 = (3) \cdot (3) \cdot (3)$
 $= 9 \cdot (3)$
 $= 27$

$9 + 27 - 5$

$36 - 5$

31

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$-\frac{1}{2} + \left[\frac{-2+3}{1} + 1 \right]^2 \cdot 4 + 2 \cdot \frac{1}{2} - \frac{1}{2}$

$-\frac{1}{2} + \left[\frac{(1)+1}{1} \right]^2 \cdot 4 + 2 \cdot \frac{1}{2} - \frac{1}{2}$

$-\frac{1}{2} + \left[\frac{2}{1} \right]^2 \cdot 4 + 2 \cdot \frac{1}{2} - \frac{1}{2}$

$-\frac{1}{2} + \frac{4-4}{1} + 2 \cdot \frac{1}{2} - \frac{1}{2}$

$-\frac{1}{2} + 1 + 2 \cdot \frac{1}{2} - \frac{1}{2}$

$-\frac{1}{2} + 1 + 1 - \frac{1}{2}$

$-\frac{1}{2} + \frac{1}{2} + 1 + 1 - \frac{1}{2}$

$-\frac{1}{2} + \frac{1}{2} + 2 - \frac{1}{2}$

$\frac{2-1}{2} = 1$

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