



Algebra Equations & Answers

Intermediate Algebra Questions With Solutions and Explanations

Write 230,000,000,000 in scientific notation.

Solution

Write the given number in the form

$a \times 10^n$, where a is a real number such that $1 \leq |a| < 10$ and n is an integer.

$$230,000,000,000 = 2.3 \times 100,000,000,000 = 2.3 \times 10^{11}$$

Evaluate: $30 - 12 \div 3 \times 2 =$

Solution

According to order of operations, $12 \div 3 \times 2$ (division and multiplication) is done first from left to right.

$$12 \div 3 \times 2 = 4 \times 2 = 8$$

Hence

$$30 - 12 \div 3 \times 2 = 30 - 8 = 22$$

Evaluate: $|4 - 8(3 - 12)| - |5 - 11| =$

Solution

According to order of operations, inner brackets first. Hence

$$|4 - 8(3 - 12)| - |5 - 11| = |4 - 8(-9)| - |5 - 11|$$

According to order of operations, multiplication within absolute value signs (which may be considered as brackets when it comes to order of operations) next. Hence

$$= |4 + 72| - |5 - 11|$$

$$= |76| - |-6|$$

$$= 76 - 6 = 70$$

Evaluate: $-18 + 4(6 \div 2)^2$

Solution

According to order of operations, inner brackets first. Hence

$$-18 + 4(6 \div 2)^2 = -18 + 4(3)^2$$

According to order of operations, power next. Hence

$$= -18 + 4 \times 9$$

According to order of operations, multiplication next. Hence

$$= -18 + 36$$

$$= 18$$

Evaluate: $11 + \text{sqrt}(-4 + 6 \times 4 \div 3)$

Solution

According to order of operations, inner brackets first where $6 \times 4 \div 3$ is first calculated since it has a multiplication and a division.

$$6 \times 4 \div 3 = 24 \div 3 = 8$$

Hence

$$11 + \text{sqrt}(-4 + 6 \times 4 \div 3) = 11 + \text{sqrt}(-4 + 8)$$

$$= 11 + \text{sqrt}(4) = 11 + 2 = 13$$

Simplify: $12x^3 - 3(2x^3 + 4x - 1) - 5x + 7$

Solution

First expand the term $-3(2x^3 + 4x - 1)$

$$12x^3 - 3(2x^3 + 4x - 1) - 5x + 7 = 12x^3 - 6x^3 - 12x + 3 - 5x + 7$$

$$\begin{aligned} &\text{Group like terms} \\ &= 6x^3 - 17x + 10 \end{aligned}$$

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Padhraic Smyth



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