

Algebra Equations Answers


Algebra Equations & Answers

Intermediate Algebra Questions With Solutions and Explanations

<p>Write 230,000,000,000 in scientific notation.</p> <p>Solution</p> <p>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.</p> $230,000,000,000 = 2.3 \times 100,000,000,000 = 2.3 \times 10^{11}$ <p>Evaluate $30 \div 12 - 3 \times 2 =$</p> <p>Solution</p> <p>According to order of operations, $12 \div 3 \times 2$ (division and multiplication) is done first from left to right.</p> $12 \div 3 \times 2 = 4 \times 2 = 8$ <p>Hence</p> $30 \div 12 - 3 \times 2 = 30 \div 12 - 6 = 22$ <p>Evaluate $4 - 8 - 3 - 12 \div (-5 - 11) =$</p> <p>Solution</p> <p>According to order of operations, inner brackets first. Hence</p> $ 4 - 8 - 3 - 12 \div (-5 - 11) = 4 - 8 - 3 - 12 \div (-16)$ <p>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</p> $= 4 - 8 - 3 - (-1)$ $= 8 - 3 - (-1)$ $= 8 - 3 + 1 = 6$	<p>Evaluate $-18 \div 4(5 - 2)^2$</p> <p>Solution</p> <p>According to order of operations, inner brackets first. Hence</p> $-18 \div 4(5 - 2)^2 = -18 \div 4(3)^2$ <p>According to order of operations, power next. Hence</p> $= -18 \div 4 \times 9$ <p>According to order of operations, multiplication next. Hence</p> $= -18 \div 36$ $= -1/2$ <p>Evaluate $11 + \text{sgn}(4 + 6 \div 4 - 3)$</p> <p>Solution</p> <p>According to order of operations, inner brackets first where $6 \div 4 - 3$ is first calculated since it has a multiplication and a division.</p> $6 \div 4 - 3 = 1.5 - 3 = -1.5$ <p>Hence</p> $11 + \text{sgn}(4 + (-1.5)) = 11 + \text{sgn}(2.5)$ $= 11 + \text{sgn}(2.5) = 11 + 1 = 12$ <p>Simplify $12x^2 - 3(2x^3 + 4x - 1) - 5x + 7$</p> <p>Solution</p> <p>First expand the term $-3(2x^3 + 4x - 1)$</p> $12x^2 - 3(2x^3 + 4x - 1) - 5x + 7 = 12x^2 - 6x^3 - 12x + 3 - 5x + 7$ <p>Group like terms</p> $= -6x^3 + 12x^2 - 17x + 10$
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