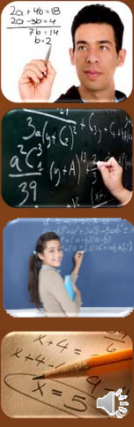



Algebra 1

Solving Multi-Step Equations: Part 1



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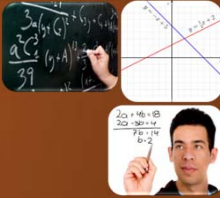
Multi-Step Equations

SADMEP

Moving Variables and Constant across an equal sign

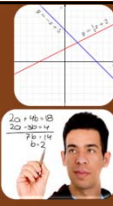
Overview



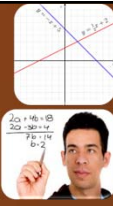
$$3z = 18$$
$$(3z) \div 3 = 18 \div 3$$
$$z = 6$$
$$3z - 3 = 18$$


Solving Multi-Step Equations

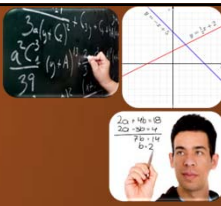
$3z - 3 = 18$
 $3z - 3 + 3 = 18 + 3$
 $3z = 21$
 $3z \div 3 = 21 \div 3$ Operations:
 $z = 7$ PEMDAS
 Reverse Order of Operations:
 SADMEP
 Solving Multi-Step Equations



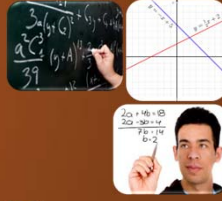
$-7x - 15 = 12$
 what math operation?
 Solving Multi-Step Equations



$5x - 6 = 24$
 $+ 6 + 6$
 $5x = 24 + 6$
 $5x - 6 = 24 + 6$
 Solving Multi-Step Equations



$+5x - 6 = 24 - 5x$

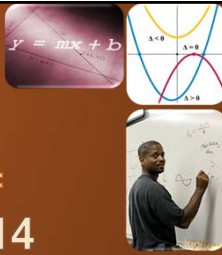


$4 - 3x = 18$

Solving Multi-Step Equations

Solve for x:

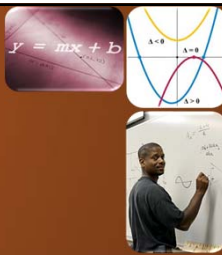
$6x - 4 = 14$



You Try

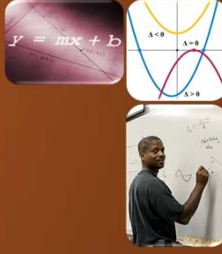
$6x - 4 = 14$
 $+ 4 \quad + 4$


 $6x = 18$
 $6x \div 6 = 18 \div 6$
 $x = 3$

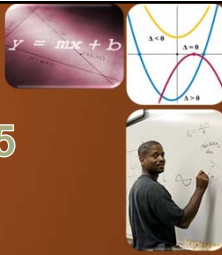



You Try

Solve for x:

$$15 - 3x = 30$$


You Try 

$$+ 15 - 3x = 30 - 15$$
$$-3x = 15$$
$$-3x \div (-3) = 15 \div (-3)$$
$$x = -5$$


You Try 

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