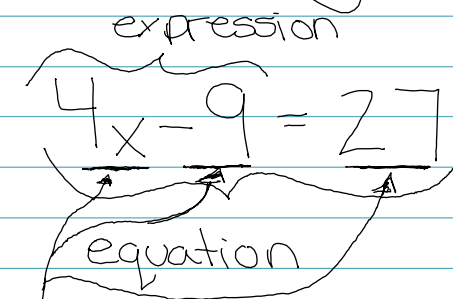


# MG 6.2 Solving Equations Using Algebra

Name \_\_\_\_\_

Review



Terms  
+/-/= separated by \*+/-/=

Blk \_\_\_\_\_

Terms

same equation

$$\begin{cases} (-6) + 4x = 54 \\ 4x - 6 = 54 \\ 54 = -6 + 4x \end{cases}$$

Example:  $5x + 6 = 31$

$$\begin{aligned} 5x + 6 &= 31 \\ -6 & \quad -6 \\ \hline 5x &= 25 \end{aligned}$$

$$\begin{aligned} 5x &= 25 \\ \div 5 & \quad \div 5 \\ \hline x &= 5 \end{aligned}$$

- 1) circle terms
- 2) +/- terms, do opposite
- 3) \*// terms, do opposite
- 4) Check!!

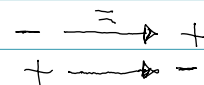
$$5(5) + 6 = 31$$

$$25 + 6 = 31$$

$$31 = 31 \quad \checkmark$$

New

\* If you move a term to the other side of an equals sign, it's pos/neg (+/-) value switches



$$4x - 6 = 54 \quad = \quad 4x = 54 + 6$$

$$4x = 60 \dots$$

Ex:  $3b + 5 = 14$

$$3b = 14 - 5$$

$$3b = 9$$

$$\div 3 \quad \div 3$$

$$b = 3$$

- 1) circle terms
- 2) move terms away from variable
- 3) solve w/ Algebra
- 4) check!!

$$3(3) + 5 = 14$$

$$9 + 5 = 14$$

$$14 = 14 \quad \checkmark$$

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