

3.2 – “Solving Equations: PART DEUX!”

STEPS:

1) Move everything containing a variable to one side of the equation
everything containing just a number to the other side of the equation.

** DON'T FORGET to **CHANGE the SIGNS** of the terms you move.

2) Simplify each side using algebra rules.

3) Solve the equation for your variable.

4) Check solutions:

To **CHECK** your solutions, use **LS/RS proof**

Ex.1) Solve algebraically.

a) $3x + 2 = 2x - 4$

LS	RS

b) $7 - 2k = 8 - 5k$

LS	RS

c) $-13m + 5 - 2m = 4 + 8m + 24$

LS	RS

“Solving Equations with BRACKETS”

STEPS:

- 1) Multiply the brackets using the distributive property.
- 2) Move everything containing a variable to one side of the equation
everything containing just a number to the other side of the equation.

** DON'T FORGET to CHANGE the SIGNS of the terms you move

- 3) Simplify each side using algebra rules.

- 4) Solve the equation for your variable.

- 5) Check solutions.

To CHECK your solutions, use **LS/RS proof**

Ex. 2) Find the root of the equation and check.

a) $4(x - 3) = -32$

LS	RS

b) $5(y - 3) - (y - 2) = 19$

LS	RS

c) $2(x - 3) = -3(x + 5) - 6$

LS	RS