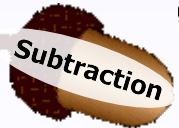**RECALL**

Inverse Operations

Operation	Multiplication $\times$	Subtraction $-$	Square x^2	Division $\div$	Addition $+$
Inverse					

Square root Subtraction Multiplication Addition Division

Solving Basic x^2 Equations

Steps:
- Isolate the x^2 term.
- Separate coefficient by multiplying and dividing.
- Take the square root of each side ($\pm$ roots!).
- Check.

$$62 + z^2 = 206$$

$$4a^2 - a^2 = 300$$

Solving Basic $\sqrt{x}$ Equations

<u>Steps:</u>
- Isolate the square root expression.
- Separate coefficient by multiplying and dividing.
- Square each side.
- Check.

$$\sqrt{x} = 6 \qquad\qquad \sqrt{x-4} = 3$$

Practice Solving Basic x^2 & $\sqrt{x}$ Problems

Steps
- **Isolate** the $\sqrt{x}$ expression.
- Separate coefficient by multiplying and dividing.
- Square each side.
- Check.

Steps:
- **Isolate** the x^2 term.
- Separate coefficient by multiplying and dividing.
- Take the square root of each side ($\pm$ roots!).
- Check.

$$\sqrt{x+2} = 11 \qquad\qquad 3a^2 - 10 = a^2 + 62$$

$$2\sqrt{x} = 8 \qquad\qquad 6 = \frac{1}{4}y^2 - 10$$