## T <br> WILLIAM D. LAW, JR. FARNUNGOOMMONE

MAT 0028 Bookmark

## In the Learning Commons:

Face-to-face Assistance: The Learning Commons provides face-to-face assistance on Foundations math problems and study strategies.
Handouts: The Learning Commons offers handouts to help students understand important concepts in Foundations for College Math 2.
Hands-on items are available at the Learning Commons such as fraction activities.

## Online:

The Learning Commons provides online tutoring through a service called Smarthinking. You can find the button to reach it in your canvas shell. This connects you to a live person via chat. You can upload pictures of problems or just type them in, and they will guide you through.

## Order of Operations

| Please | P | Parentheses and <br> Grouping Symbols <br> (inside first) |
| :--- | :--- | :--- |
| Excuse | E | Exponents |
| My Dear | M <br> $\mathbf{D}$ | Multiplication or Division <br> from left to right |
| Aunt Sally | A <br> S | Addition or Subtraction <br> from left to right |

## Math Translation Words

| $+\rightarrow$ Sum, increased by, <br> addition, more than | $\mathrm{x} \rightarrow$ Product, <br> multiply, of |
| :--- | :--- |
| $-\rightarrow$ Difference, subtract, <br> decreased by, less than | $\div \rightarrow$ Divide, <br> quotient |
| $=\rightarrow$ Equal, is |  |

*If $\mathrm{AB}=0$, then $\mathrm{A}=0$ or $\mathrm{B}=0$
*If $\mathrm{x}^{2}=\mathrm{k}, \mathrm{k}>0$, then $\mathrm{x}= \pm \sqrt{k}$

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Exponent Rules

| $m^{a} m^{b}=m^{a+b}$ | $\left(m^{a} n^{c}\right)^{b}=m^{a b} n^{b c}$ |
| :--- | :--- |
| $\frac{m^{a}}{m^{b}}=m^{a-b}$ | $m^{-a}=\frac{1}{m^{a}}$ |
| $m^{0}=1$ | $\sqrt[b]{m^{a}}=m^{\frac{a}{b}}$ |

Factoring Summary


Factoring steps when solving quadratic:

1. Get the equation $=0$
2. Factor out any common terms
3. Is it a difference of two squares?
4. Does it have 4 terms (grouping)
5. For a trinomial, use AC or trial/error.
6. Set all factors with a variable $=0$ and solve.
