Mathematics 52
Handout 3
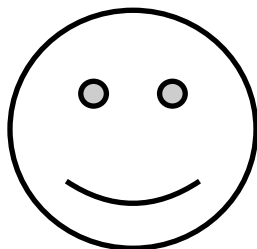**Fall 2016**
Professor: Mohammed Kaabar
Course ID: (27488) and (27501)

Note: This handout covers important **algebra skills**.

Important Notes: GENERAL

- When you see $0.\bar{3}$, this means that 3 is repeated forever ($0.\bar{3} = 0.33333333333333$).

- When you see $\sqrt[3]{125}$, this means you need to find a number when you multiply the number by itself three times, you will get 125.

- $\sqrt[3]{125} = (125)^{\frac{1}{3}}$ "125 to the power $\frac{1}{3}$"

- $\sqrt{25} = (25)^{\frac{1}{2}}$ "25 to the power $\frac{1}{2}$"

- Generally, $\sqrt[3]{Any\ Number} = (Any\ Number)^{\frac{1}{3}}$ "Any Number to the power $\frac{1}{3}$"

- Generally, $\sqrt[5]{Any\ Number} = (Any\ Number)^{\frac{1}{5}}$ "Any Number to the power $\frac{1}{5}$"

- $2^{-1} = \frac{1}{2} = 0.5$

- $2^{0.5} = 2^{\frac{1}{2}} = \sqrt{2}$

- $2^{-0.5} = 2^{-\frac{1}{2}} = \frac{1}{\sqrt{2}}$

- $2^0 = 1$ "Anything to the power 0 is always 1"

Math is Amazing!!!

Practice + Study = Success

Good Luck

Mohammed Kaabar