January 7, 2015

College Algebra → Functions

Functions

① Linear → Lines

② Radical → Curves

③ Quadratic → curves

④ Rational → curves

⑤ Fractions!!

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Sets

def: a set is a collection of "like" things

members

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Mathematical Sets

① Natural Numbers

Counting $\mathbb{N} = \{1, 2, 3, \ldots\}$

$n = m \cdot k$

$n = 12$, $m = 4$, $k = 3$ $\quad 12 = 4 \cdot 3$, $\frac{12}{4} = 3$, $3 = 3$ true

$n = 7$, $m = 7$, $k = 1$ $\quad 7 = 7 \cdot 1$, $\frac{7}{7} = 1$ or $\frac{7}{1} = 7$

def: a Prime number is a natural number that has itself and one as factors.

def: a Composite number which is all natural number that are not Prime.

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Natural Numbers

① Prime → $P = \{2, 3, 5, 7, 11, 13, 17, \ldots\}$

or

② Composite

What is one?

* one is considered neither Prime or Composite

$1 = 1 \cdot 1$ true;

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Zero!

$1 \& 3$ or $1 \& 0 \; 3$

② Whole Number

$W = \{0, 1, 2, \ldots\}$

$w = m \cdot k$

$9 = 0 \cdot 3$?

$\frac{9}{0} = 3$?

meaning

undefined!

Jan 7-11:39 AM

Do Readings for Tuesday

faculty.uwg.edu/mgoodroe

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