June 29, 2015

Subsets

$A = \{a, b\}$

Size	#	
0	1	$\emptyset$
1	2	$\{a\}$, $\{b\}$
2	1	$\{a, b\}$
	4	

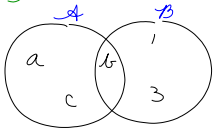
$2^n = 2^2 = 4$, $n = 2$

Jun 29-11:09 AM

#20 $n(A \cup B) + n(A \cap B) = n(A) + n(B)$

$A = \{a, b, c\}$

$B = \{1, b, 3\}$



① $n(A \cup B) = \{a, b, c\} \cup \{1, b, 3\} = \{a, b, c, 1, 3\} = 5$

② $n(A \cap B) = \{b\} = 1$

③ $n(A) = 3$

④ $n(B) = 3$

Jun 29-11:13 AM

#13)

Whole numbers between -3 & 0, not inclusive.

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

$\emptyset$

Jun 29-11:21 AM

#8) $39 \times 55 \rightarrow 40 \times 60 = 2400$

#9) $7 \le 3 \rightarrow \frac{800}{200} = 4$

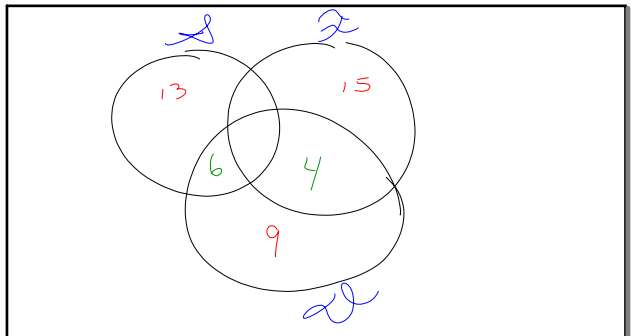
#10) $3.8\% \rightarrow 4\%$

$\approx .04$

4% of 590

4% of $600 = 24$

Jun 29-11:23 AM



Jun 29-11:30 AM

#6)

If $A \subseteq B$

all members of A are in B

If $A \subset B$

all members are in B, but $A \neq B$.

$A = \emptyset$

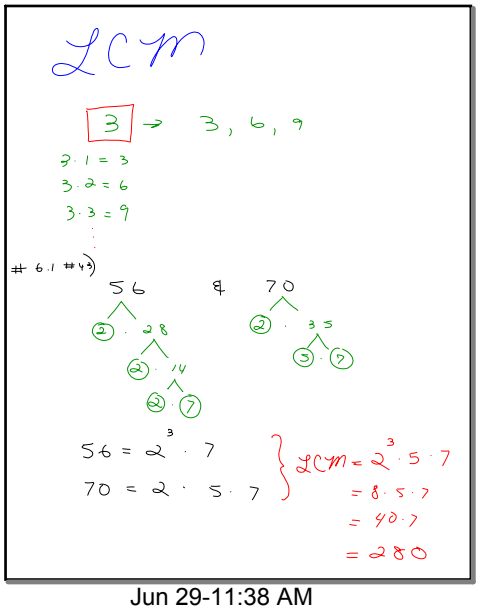
$B = \{\emptyset\}$

is $A \subseteq B$?

or

is $A \subset B$?

Jun 29-11:32 AM



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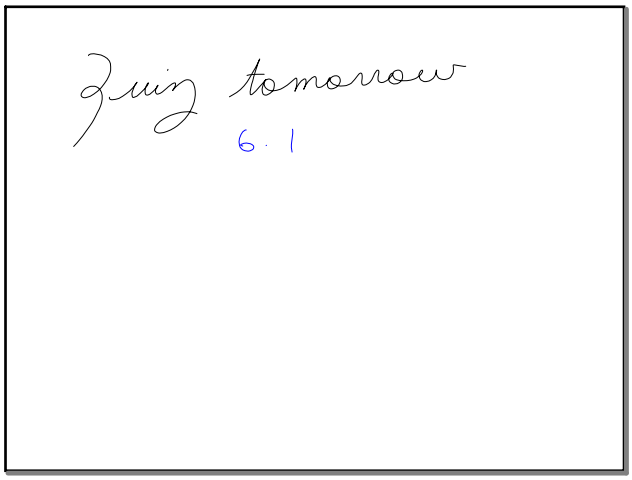

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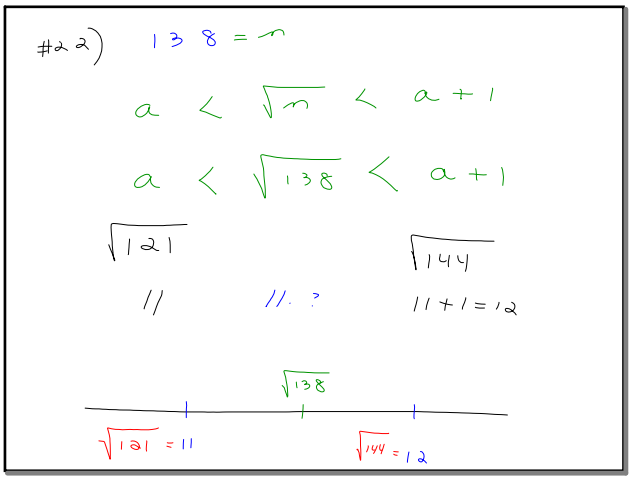

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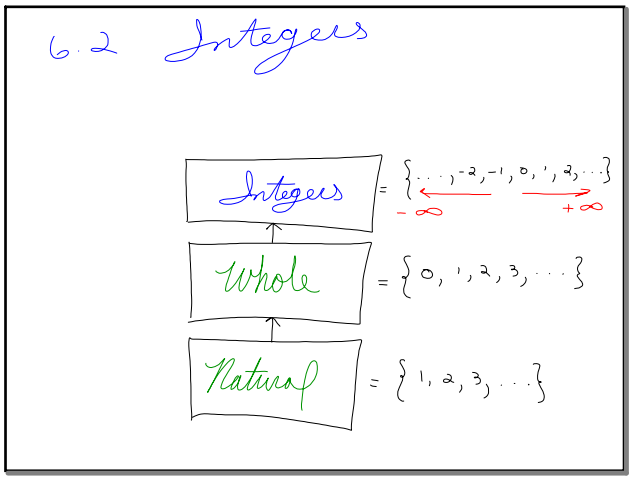
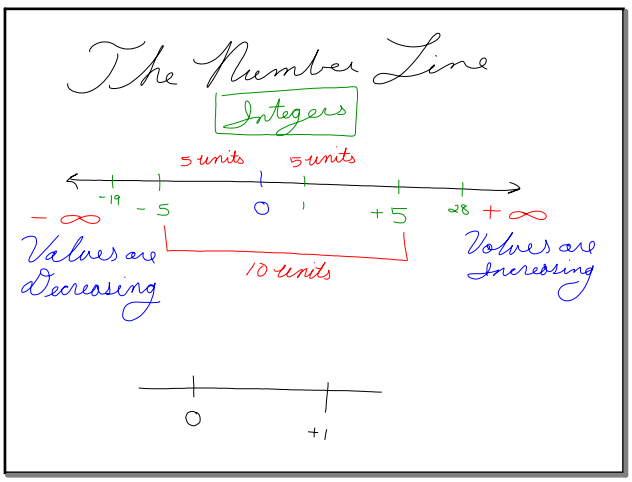


Jun 29-11:49 AM



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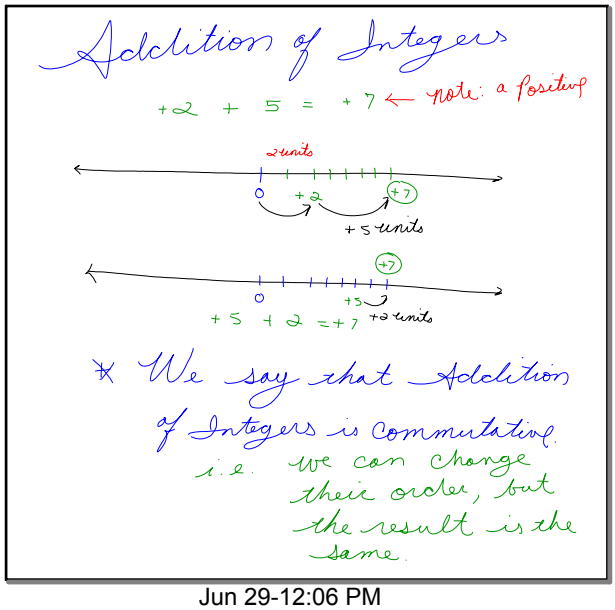

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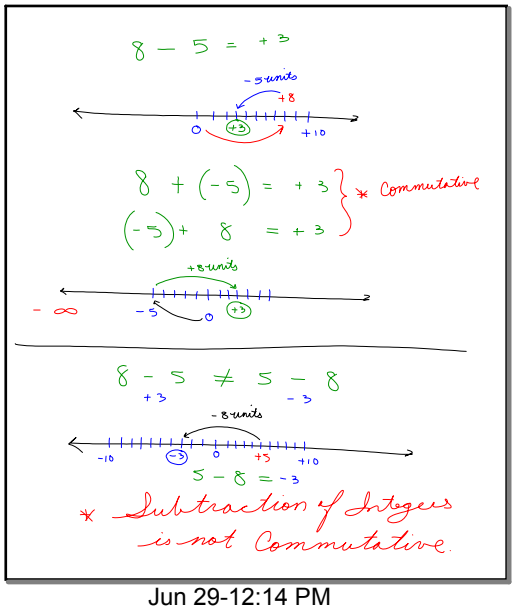

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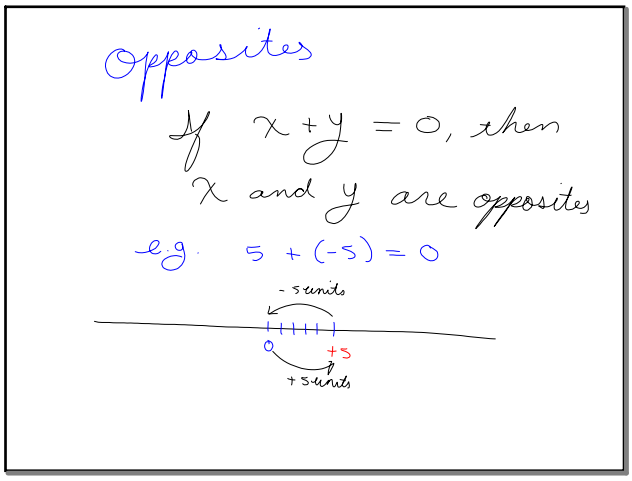

Jun 29-12:24 PM