

January 20, 2015

Quiz #1 → 20 pts

#2 → -4 pts

-2 #2

total 3 missed pts

$$20 - 3 = \frac{17}{20} = 85$$

Jan 20-10:54 AM

#3)

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    graph TD
      Real[Real] --> Rational[Rational]
      Real --> Irrational[Irrational]
  
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#4) $T = \{x \in \mathbb{Z} \mid x > -3\}$
 $= \{-2, -1, 0, 1, 2, \dots\}$

⊚ → Rational Numbers

Integers	Non-Integers
$\frac{-10}{1} = -10$	$\frac{1}{2} = 0.5$
$\frac{4}{1} = 4.0$	$\frac{1}{3} = 0.\overline{33}$
	$\frac{7}{5} = 1.4$

#1

$\frac{\sqrt{5}}{1}$ ⊚ ⊚ ⊚ ℝ

$\frac{\sqrt{7}}{3} + \frac{x+5}{\sqrt{2-b}} = 8$

Jan 20-11:03 AM

"and" → Intersection → \cap

$$A \cap B = \{x \mid x \in A \text{ and } x \in B\}$$

① $x \leq 11$ $-\infty \leftarrow \bullet \rightarrow 11$
 $(-\infty, 11]$

② $x > -3$ $-3 \leftarrow \circ \rightarrow +\infty$
 $(-3, \infty)$

a.) Graph

b.) S. B. $\{x \mid x \leq 11 \text{ and } x > -3\}$

c.) Interval $(-3, 11]$

Jan 20-11:22 AM

① $x \geq -5$

② $x < 0$

a.) Graph

b.) S. B. $\{x \mid x \geq -5 \text{ and } x < 0\}$

c.) Interval $[-5, 0)$

Jan 20-11:29 AM

① $x < 6$

② $x \leq -3$

a.) Graph

b.) S. B. $\{x \mid x < 6 \text{ or } x \leq -3\}$

c.) I $(-\infty, 6)$

Jan 20-11:34 AM

① $x < 6$

② $x \leq -3$ } "or" → Union

a.) Graph:

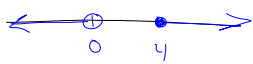
b.) S. B. $\{x \mid x < 6 \text{ or } x \leq -3\}$

c.) I $(-\infty, 6)$

Jan 20-11:43 AM

$$\textcircled{1} \quad x < 0 \quad \left. \vphantom{x} \right\} \text{"or"}$$

$$\textcircled{2} \quad x \geq 4$$

a.) Graph 

b.) S. P.

$$\text{c.) } \mathcal{I} \quad (-\infty, 0) \cup [4, \infty)$$

Do 1.3 assignment

Jan 20-11:46 AM

Jan 20-11:52 AM