Compound Inequalities - Key

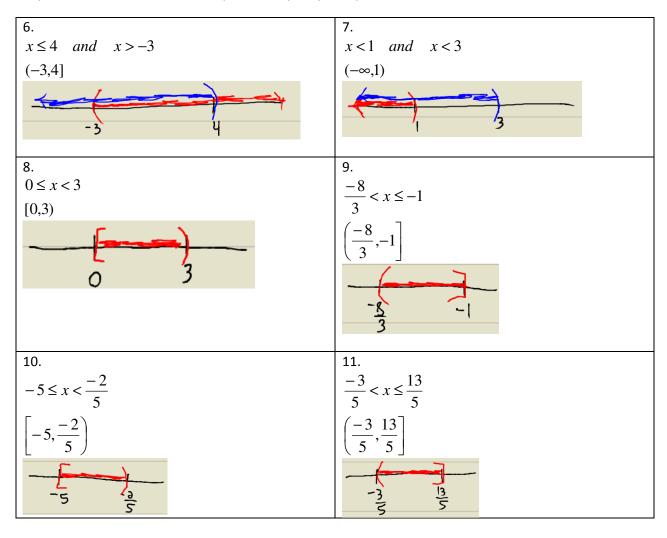
In problems 1-3, Use $A = \{1, 2, 3, 4, 5, 6\}$, $B = \{1, 3, 10\}$, and $C = \{4, 5, 7, 11\}$ to find each set.

1. $A \cup B = \{1, 2, 3, 4, 5, 6, 10\}$	2. $A \cap B = \{1,3\}$
3. $B \cap C = \emptyset$ (empty set)	

In problems 4-5, use the graph of the inequality to find each set.

4.	5.
$A \cup B = (-\infty, \infty)$	$A \cup B = (-\infty, 2) \cup [5, \infty)$
$A \cap B = [1,7)$	$A \cap B = \emptyset$ (empty set)

In problems 6-11, solve each compound inequality. Graph the solution set.



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In problems 12-15, solve each compound inequality. Graph the solution set.

