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Write in plain English how you would refer to the intervals that these symbols represent:

(a) (1,5);

(b) (1,5];

(c) [1, 5);

(d) [1, 5].

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Take A to be the solution set to the compound inequalities

2x + 1 > -9 and 2x < x + 7.

Take B to be the solution set to the compound inequalities

2x > 3x + 2 or $x \ge 4$.

Determine the set X of all real numbers that satisfy the conditions that determine both solution sets A and B.

Reflect on how you used the Principle of Decomposition and the language of sets to solve this problem.





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2x + 1 > -9 and 2x < x + 7.

Take B to be the solution set to the compound inequalities

2x > 3x + 2 or $x \ge 4$.

Determine the set Y of all real numbers that satisfy the conditions that determine either of the solution sets A and B.

Reflect on how you used the Principle of Decomposition and the language of sets to solve this problem.



