6.6 Solving Inequalities: Addition & Subtraction

Note Title

Dcc5/14

To solve an inequality, we use the same strategy as for solving an equation. We isolate the variable by adding or subtracting from each side of the inequality:

Compare the following solutions:

$$x + 3 = 5$$
 $x + 3 < 5$ -3 -3 -3

only one solution. Many solutions (any# less than a)

Examples: Solve the inequality. Graph the solution.

1)
$$6 \le x - 4$$

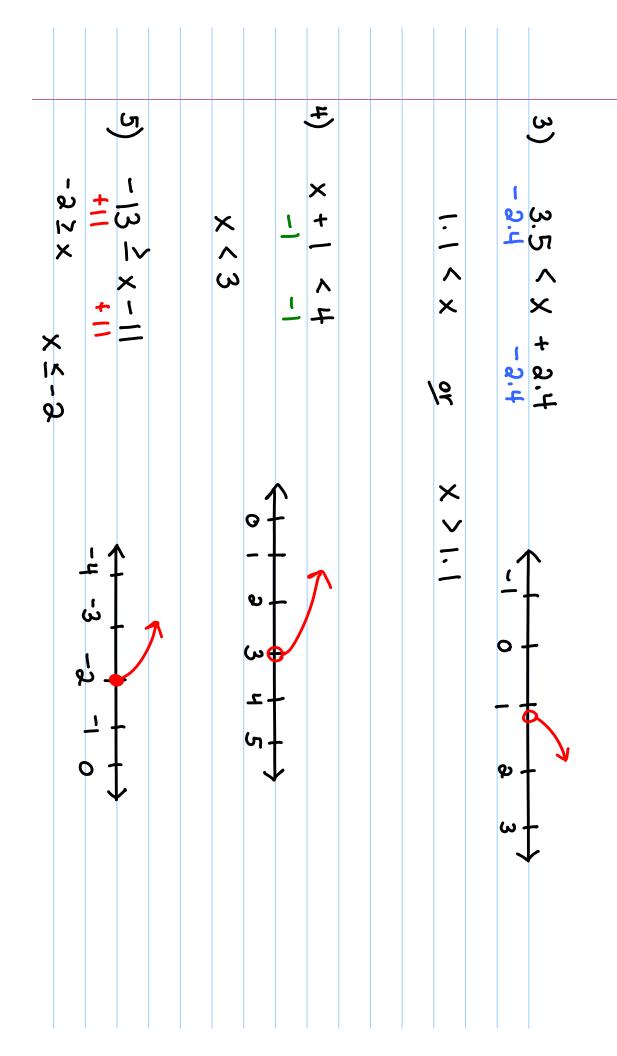
10 $\le x$ or $x \ge 10$

2) $3x > 3x + 19$

3) $3x > 3x + 19$

4) 10 11 13 13 14

 $x > 19$



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							+	# 4,7 (just
							he vari	g 298 # 4,7,8,9 (just isolate
							able)	