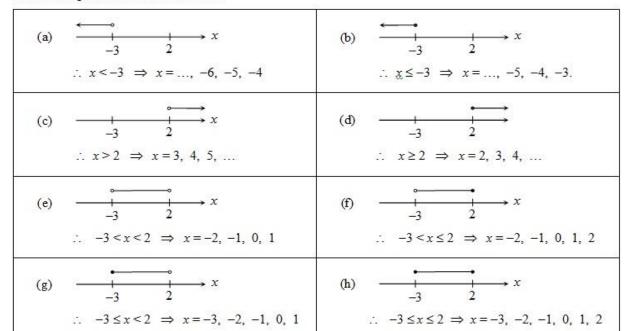
(7) LINEAR INEQUALITIES

(a) Linear Inequalities in One Unknown



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(b) Solving Inequalities in One Variable

Example 1 :	Example 2 :	Example 3:	Example 4 :
x + 3 < 5	x + 3 ≥ 5	x-3<5	$x-3 \ge 5$
x < 5 - 3	$x \ge 5 - 3$	x < 5 + 3	$x \ge 5 + 3$
x < 2	<i>x</i> ≥ 2	x < 8	x ≥ 8
Example 5 :	Example 6 :	Example 7:	Example 8 :
2x < 5	2x ≥ 5	-2x < 5	$-2x \ge 5$
	The state of the s	$x > \frac{5}{-2}$	$x \le \frac{5}{-2}$
$x < \frac{5}{2}$	$x \ge \frac{5}{2}$	The state of the s	-2
		$x > -\frac{5}{2}$	$x \le -\frac{5}{2}$
Example 9 :	Example 10 :	Example 11 :	Example 12 :
$\frac{x}{2} \leq 5$	$\frac{x}{2} \ge 5$	$\frac{x}{-2} \lesssim 5$	$\frac{x}{-2} \ge 5$
x < 10	<i>x</i> ≥ 10	x > -10	<i>x</i> ≤ −10
	800	$\frac{x}{-2} \lesssim 5$ $x > -10$	$\frac{x}{-2} \ge 5$ $x \le -10$

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