





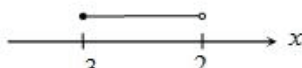
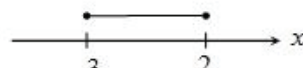


Matematik Form 1 bab 7: Ketaksamaan Linear

(7) LINEAR INEQUALITIES

(a) Linear Inequalities in One Unknown

<p>(a) </p> <p>$\therefore x < -3 \Rightarrow x = \dots, -6, -5, -4$</p>	<p>(b) </p> <p>$\therefore x \leq -3 \Rightarrow x = \dots, -5, -4, -3$</p>
<p>(c) </p> <p>$\therefore x > 2 \Rightarrow x = 3, 4, 5, \dots$</p>	<p>(d) </p> <p>$\therefore x \geq 2 \Rightarrow x = 2, 3, 4, \dots$</p>
<p>(e) </p> <p>$\therefore -3 < x < 2 \Rightarrow x = -2, -1, 0, 1$</p>	<p>(f) </p> <p>$\therefore -3 < x \leq 2 \Rightarrow x = -2, -1, 0, 1, 2$</p>
<p>(g) </p> <p>$\therefore -3 \leq x < 2 \Rightarrow x = -3, -2, -1, 0, 1$</p>	<p>(h) </p> <p>$\therefore -3 \leq x \leq 2 \Rightarrow x = -3, -2, -1, 0, 1, 2$</p>

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(b) Solving Inequalities in One Variable

<p>Example 1 :</p> $x + 3 < 5$ $x < 5 - 3$ $x < 2$	<p>Example 2 :</p> $x + 3 \geq 5$ $x \geq 5 - 3$ $x \geq 2$	<p>Example 3 :</p> $x - 3 < 5$ $x < 5 + 3$ $x < 8$	<p>Example 4 :</p> $x - 3 \geq 5$ $x \geq 5 + 3$ $x \geq 8$
<p>Example 5 :</p> $2x < 5$ $x < \frac{5}{2}$	<p>Example 6 :</p> $2x \geq 5$ $x \geq \frac{5}{2}$	<p>Example 7 :</p> $-2x < 5$ $x > \frac{5}{-2}$ $x > -\frac{5}{2}$	<p>Example 8 :</p> $-2x \geq 5$ $x \leq \frac{5}{-2}$ $x \leq -\frac{5}{2}$
<p>Example 9 :</p> $\frac{x}{2} < 5$ $x < 10$	<p>Example 10 :</p> $\frac{x}{2} \geq 5$ $x \geq 10$	<p>Example 11 :</p> $\frac{x}{-2} < 5$ $x > -10$	<p>Example 12 :</p> $\frac{x}{-2} \geq 5$ $x \leq -10$

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