$${x \mid f(x) \le g(x)} = {x \mid f(x) \le y \le g(x)}$$

$$f(x) \le g(x)$$
꼴의 부등식을 그래프로 풀기 $(\{x \mid f(x) \le g(x)\} = \{x \mid f(x) \le y \le g(x)\})$

$${x \mid f(x) \le g(x)} = {x \mid f(x) \le y \le g(x)}$$

$${x \mid f(x) \le g(x)} = {x \mid f(x) \le y \le g(x)}$$

$$f(x) \le g(x)$$

$${x \mid f(x) \le g(x)} = {x \mid f(x) \le y \le g(x)}$$

$$f(x) \le g(x)$$
 $f(x) \le y \le g(x)$

$${x \mid f(x) \le g(x)} = {x \mid f(x) \le y \le g(x)}$$

$$f(x) \le g(x)$$
 $f(x) \le y \le g(x)$

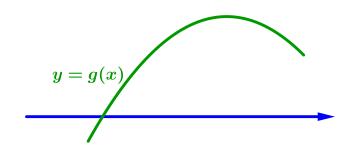
$${x \mid f(x) \le g(x)} = {x \mid f(x) \le y \le g(x)}$$

$$f(x) \le g(x)$$
 $f(x) \le y \le g(x)$

$$y = g(x)$$

$${x \mid f(x) \le g(x)} = {x \mid f(x) \le y \le g(x)}$$

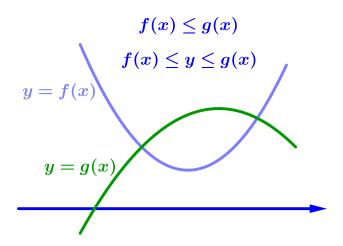
$$f(x) \le g(x)$$
$$f(x) \le y \le g(x)$$



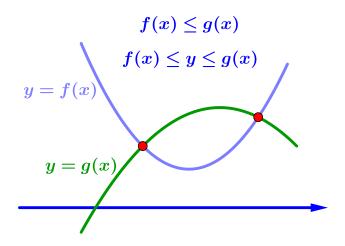
$${x \mid f(x) \le g(x)} = {x \mid f(x) \le y \le g(x)}$$

$$f(x) \le g(x)$$
 $f(x) \le y \le g(x)$
 $y = f(x)$
 $y = g(x)$

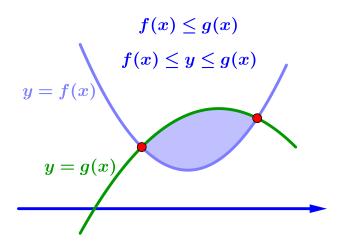
$${x \mid f(x) \le g(x)} = {x \mid f(x) \le y \le g(x)}$$



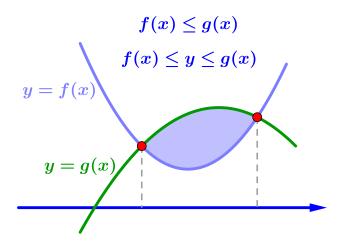
$${x \mid f(x) \le g(x)} = {x \mid f(x) \le y \le g(x)}$$



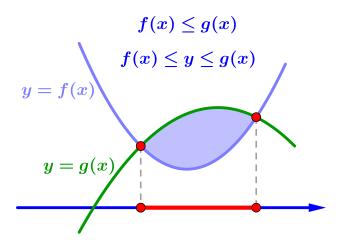
$${x \mid f(x) \le g(x)} = {x \mid f(x) \le y \le g(x)}$$



$${x \mid f(x) \le g(x)} = {x \mid f(x) \le y \le g(x)}$$



$${x \mid f(x) \le g(x)} = {x \mid f(x) \le y \le g(x)}$$



$${x \mid f(x) \le g(x)} = {x \mid f(x) \le y \le g(x)}$$

$${x \mid f(x) \le g(x)} = {x \mid f(x) \le y \le g(x)}$$

$$x_0 \in \{x \mid f(x) \le g(x)\}$$

$${x \mid f(x) \le g(x)} = {x \mid f(x) \le y \le g(x)}$$

$$x_0 \in \{x \mid f(x) \le g(x)\} \Leftrightarrow f(x_0) \le g(x_0)$$

$${x \mid f(x) \le g(x)} = {x \mid f(x) \le y \le g(x)}$$

$$x_0 \in \{x \mid f(x) \le g(x)\}$$
 \Leftrightarrow $f(x_0) \le g(x_0)$
 \Leftrightarrow $f(x_0) \le \frac{f(x_0) + g(x_0)}{2} \le g(x_0)$

$${x \mid f(x) \le g(x)} = {x \mid f(x) \le y \le g(x)}$$

$$x_0 \in \{x \mid f(x) \le g(x)\} \quad \Leftrightarrow \quad f(x_0) \le g(x_0)$$

$$\Leftrightarrow \quad f(x_0) \le \frac{f(x_0) + g(x_0)}{2} \le g(x_0)$$

$$\Rightarrow \quad x_0 \in \{x \mid f(x) \le y \le g(x)\}$$

$${x \mid f(x) \le g(x)} = {x \mid f(x) \le y \le g(x)}$$

$$x_{0} \in \{x \mid f(x) \leq g(x)\} \quad \Leftrightarrow \quad f(x_{0}) \leq g(x_{0})$$

$$\Leftrightarrow \quad f(x_{0}) \leq \frac{f(x_{0}) + g(x_{0})}{2} \leq g(x_{0})$$

$$\Rightarrow \quad x_{0} \in \{x \mid f(x) \leq y \leq g(x)\}$$

$$\{x \mid f(x) \leq g(x)\} \quad \subset \quad \{x \mid f(x) \leq y \leq g(x)\}$$

$${x \mid f(x) \le g(x)} = {x \mid f(x) \le y \le g(x)}$$

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$$\{x \mid f(x) \leq g(x)\} \quad \subset \quad \{x \mid f(x) \leq y \leq g(x)\}$$

$$x_{0} \in \{x \mid f(x) \leq y \leq g(x)\} \quad \Leftrightarrow \quad f(x_{0}) \leq y_{0} \leq g(x_{0})$$

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$$x_{0} \in \{x \mid f(x) \leq y \leq g(x)\} \quad \Leftrightarrow \quad f(x_{0}) \leq y_{0} \leq g(x_{0})$$

$$\Rightarrow \quad f(x_{0}) \leq g(x_{0})$$

$$\Leftrightarrow \quad x_{0} \in \{x \mid f(x) \leq g(x)\}$$

$$\{x \mid f(x) \leq y \leq g(x)\} \quad \subset \quad \{x \mid f(x) \leq g(x)\}$$

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$$\Leftrightarrow \quad x_{0} \in \{x \mid f(x) \leq g(x)\}$$

$$\{x \mid f(x) \leq y \leq g(x)\} \quad \subset \quad \{x \mid f(x) \leq g(x)\}$$

$$\therefore \{x \mid f(x) \le g(x)\} = \{x \mid f(x) \le y \le g(x)\}\$$



$${x \mid f(x) \le g(x)} = {x \mid f(x) \le y \le g(x)}$$

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