$f(x) = g(x)$ 꼴의 방정식을 그래프로 풀기
(Solve the equation of $f(x) = g(x)$ as a graph)

Solve the equation of $f(x) = g(x)$ as a graph

▸ Start ▸ End

Solve the equation of $f(x) = g(x)$ as a graph

Start End

$$f(x) = g(x)$$

Solve the equation of $f(x) = g(x)$ as a graph

Start End

$$f(x) = g(x)$$

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

Solve the equation of $f(x) = g(x)$ as a graph

Start End

$$f(x) = g(x)$$

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

Start End

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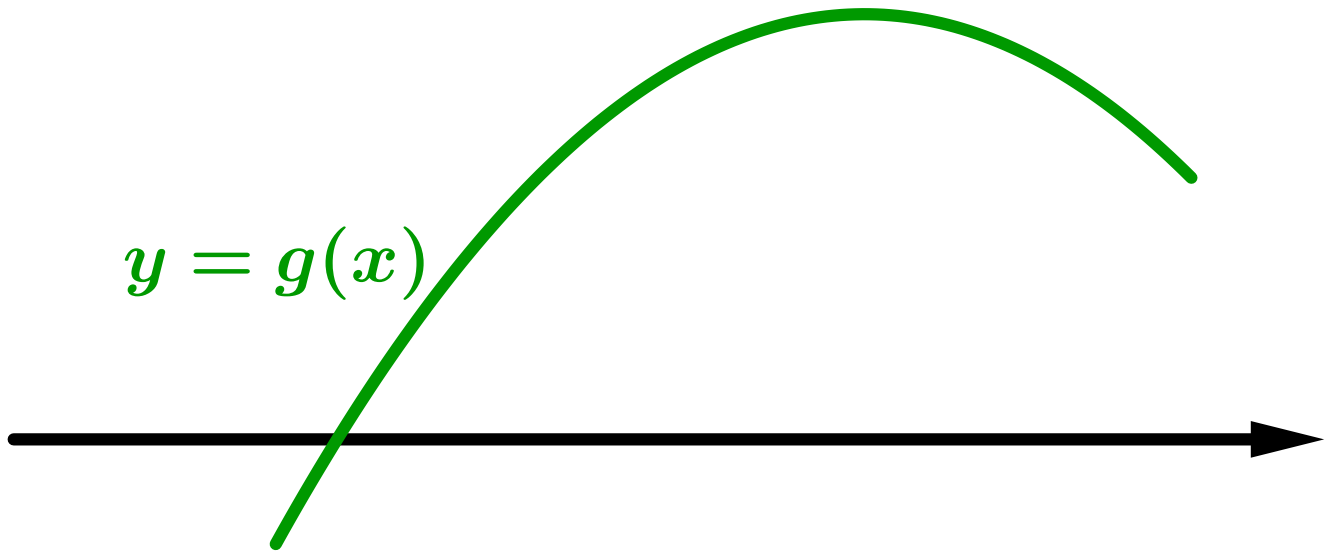
$$f(x) = y = g(x)$$

$$y = g(x)$$

Start End

$$f(x) = g(x)$$

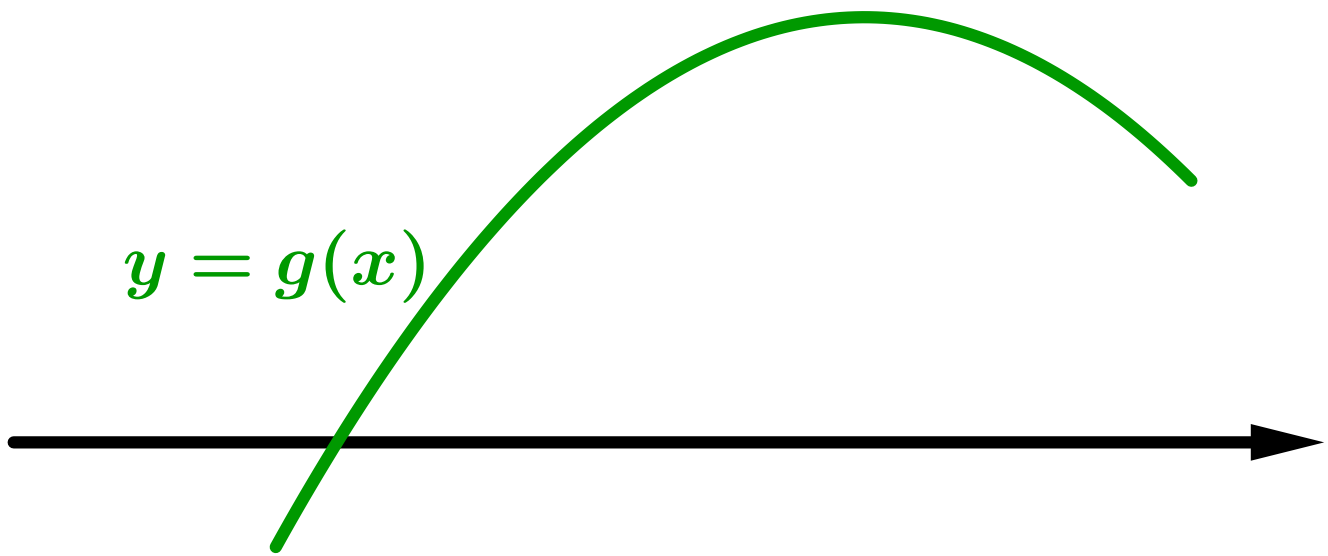
$$f(x) = y = g(x)$$



$$f(x) = g(x)$$

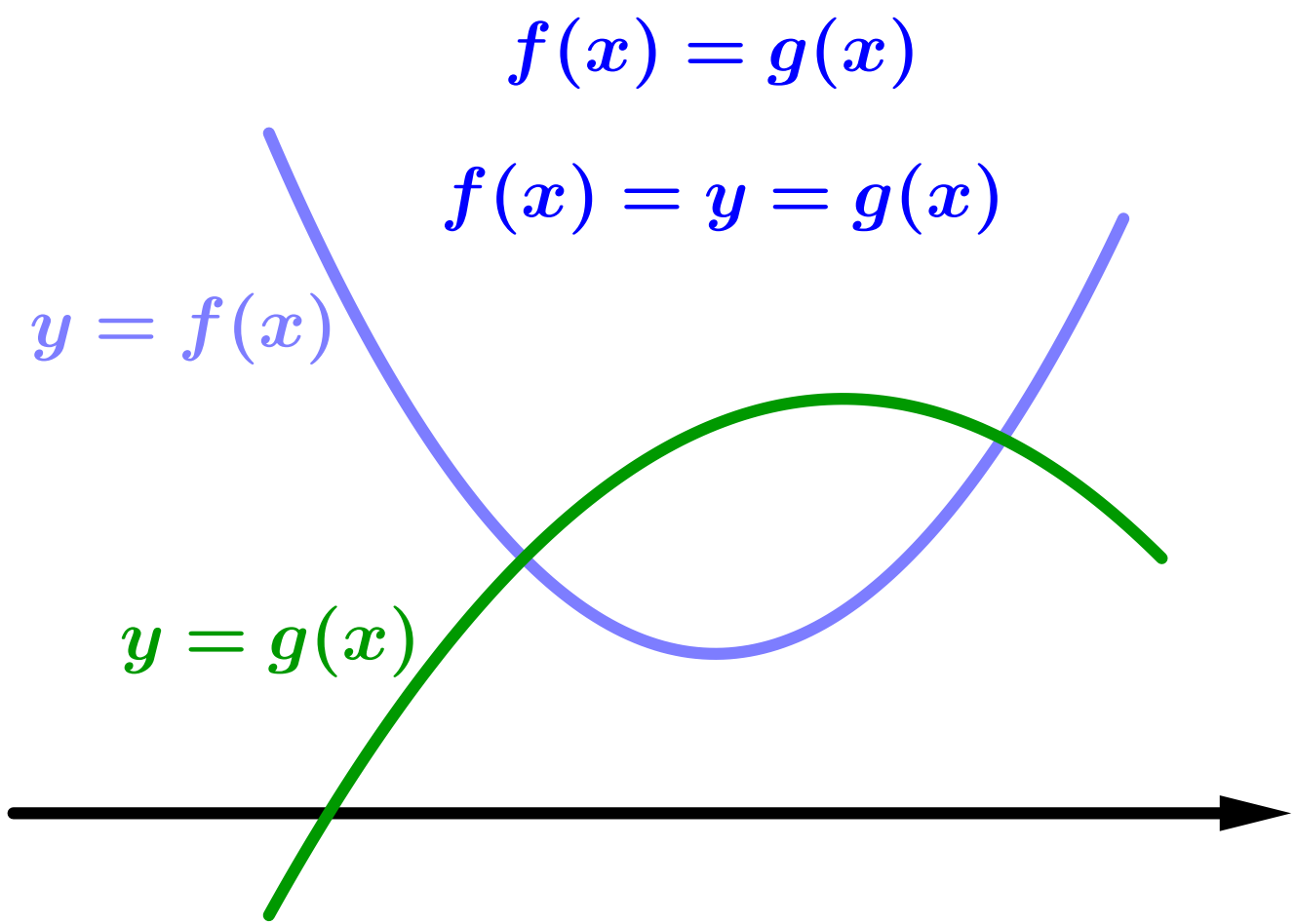
$$f(x) = y = g(x)$$

$y = f(x)$



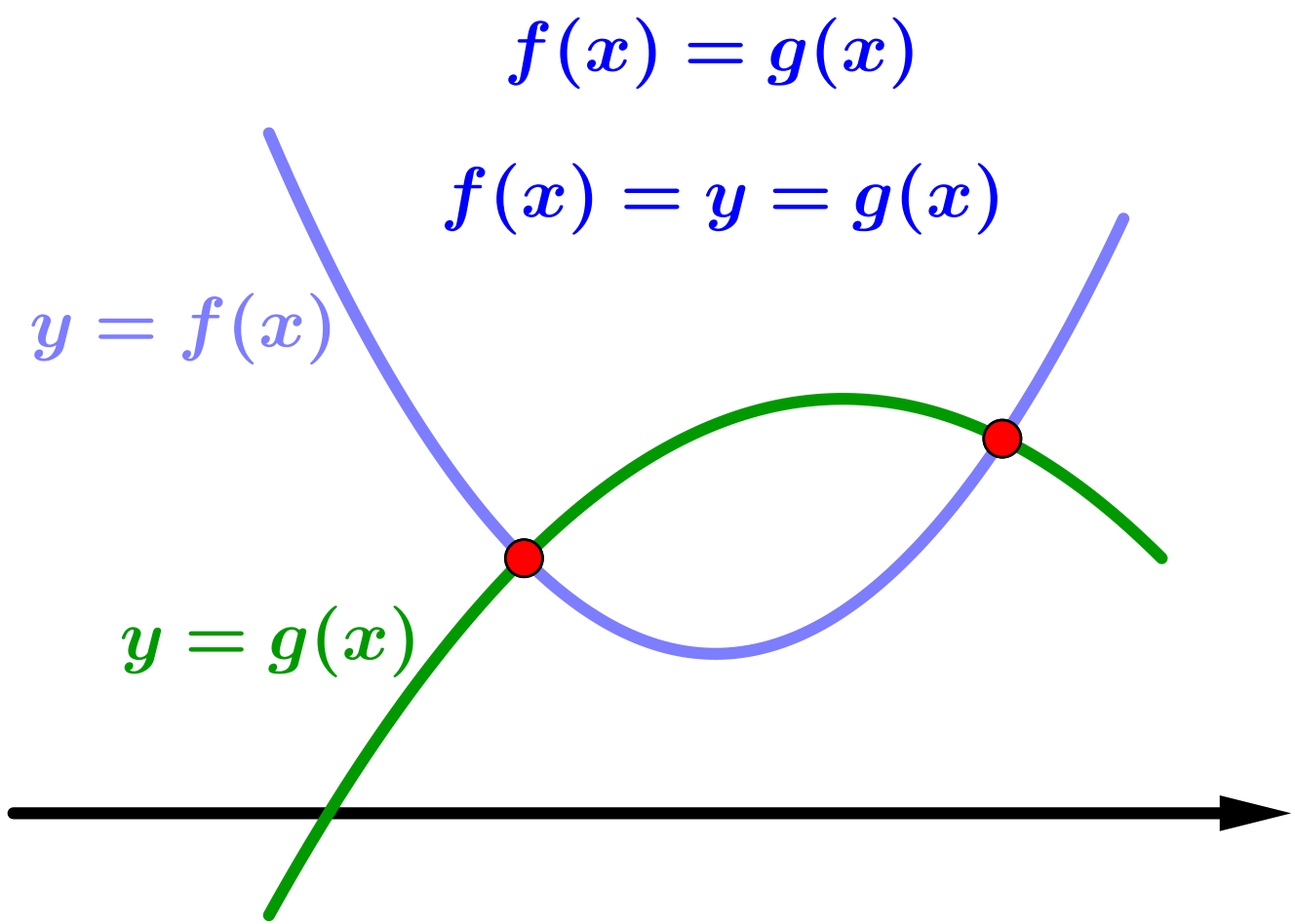
Solve the equation of $f(x) = g(x)$ as a graph

Start End



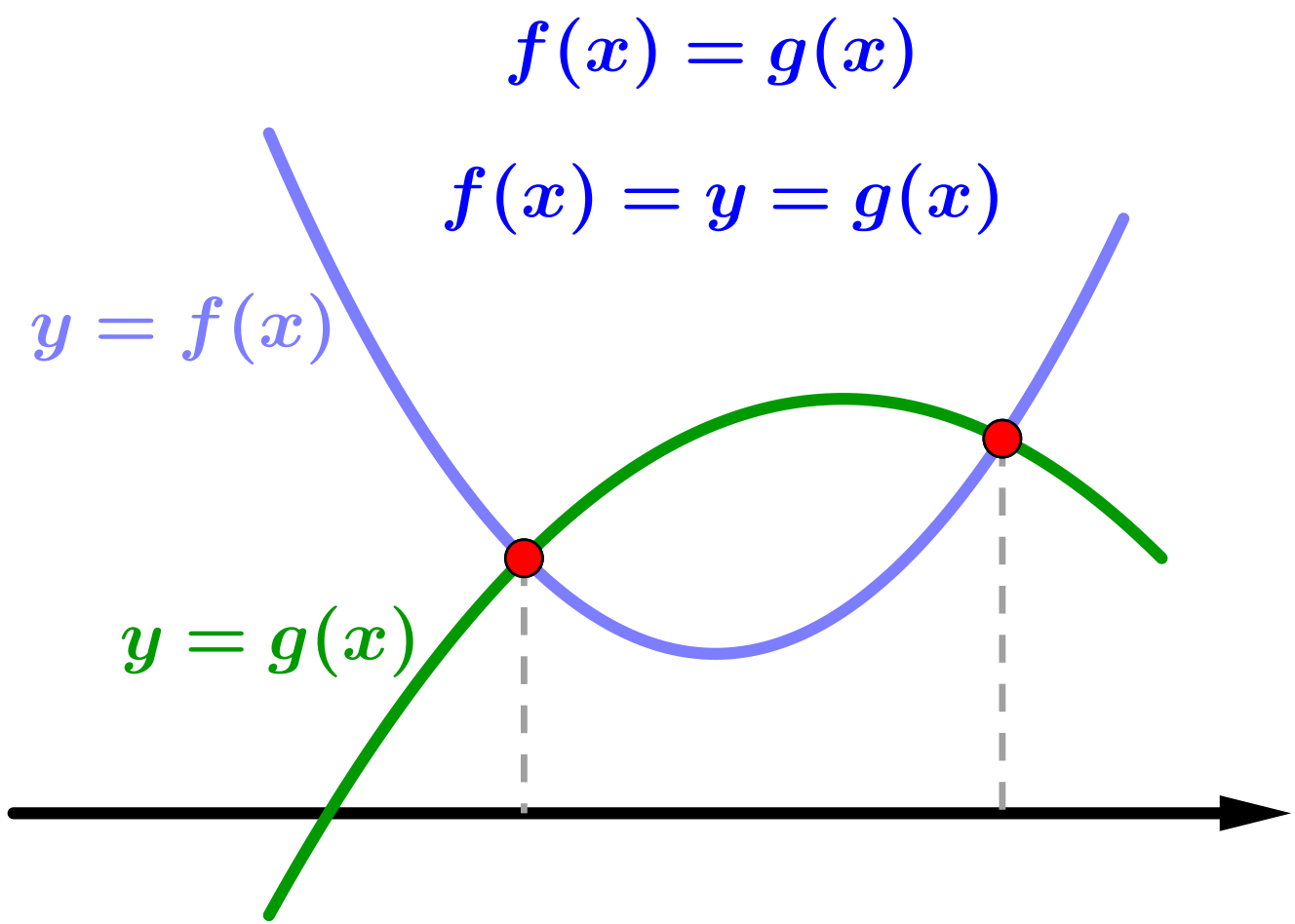
Solve the equation of $f(x) = g(x)$ as a graph

Start End



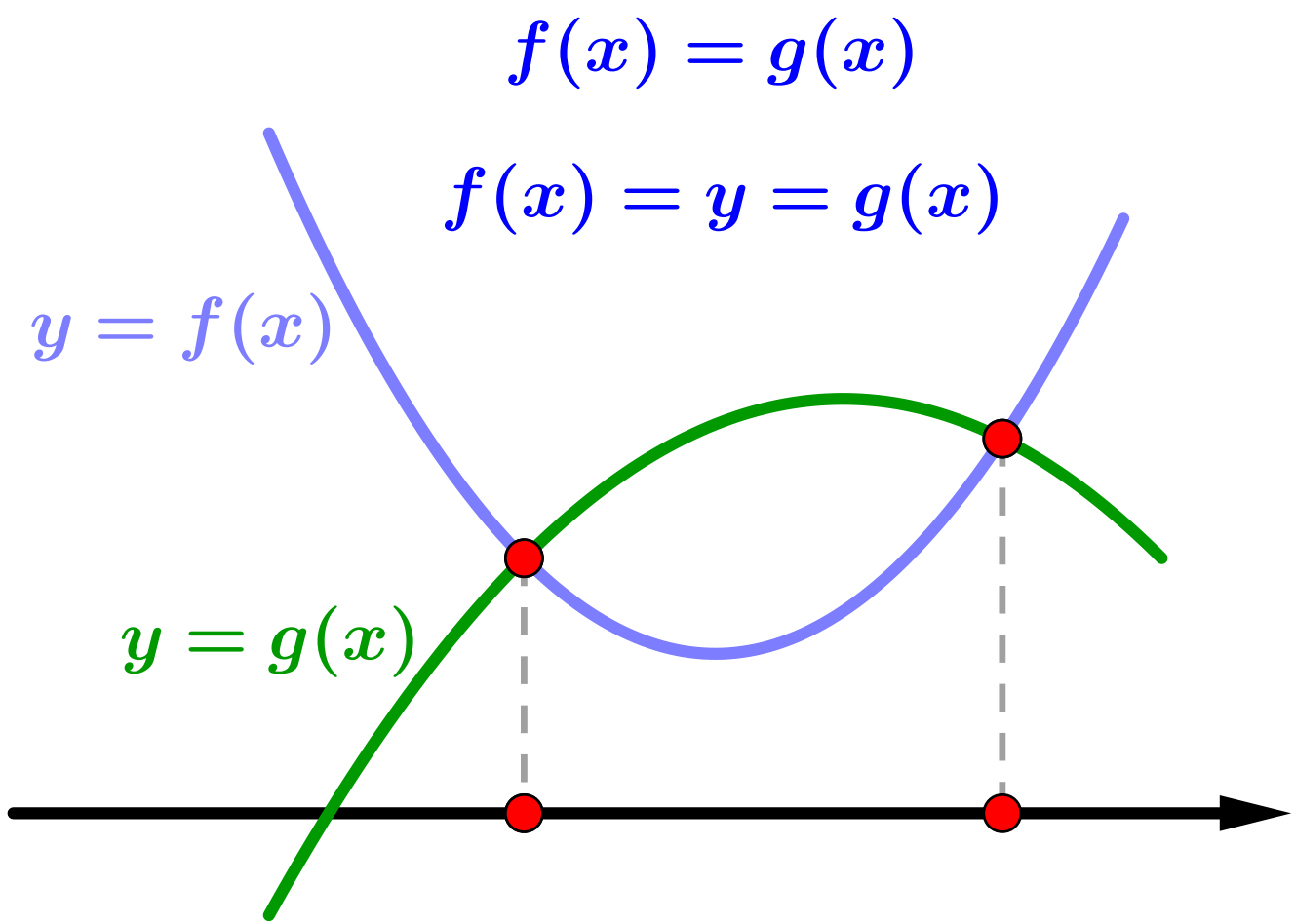
Solve the equation of $f(x) = g(x)$ as a graph

Start End



Solve the equation of $f(x) = g(x)$ as a graph

Start End



Solve the equation of $f(x) = g(x)$ as a graph

Home Start End

Solve the equation of $f(x) = g(x)$ as a graph

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

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

$$x_0 \in \{x \mid f(x) = g(x)\} \quad \Leftrightarrow \quad f(x_0) = g(x_0)$$
$$\Leftrightarrow \quad f(x_0) = y_0 = g(x_0)$$

$$
\begin{aligned}
x_0 \in \{x \mid f(x) = g(x)\} &\Leftrightarrow f(x_0) = g(x_0) \\
&\Leftrightarrow f(x_0) = y_0 = g(x_0) \\
&\Leftrightarrow x_0 \in \{x \mid f(x) = y = g(x)\}
\end{aligned}
$$

$$
\begin{aligned}
x_0 \in \{x \mid f(x) = g(x)\} &\Leftrightarrow f(x_0) = g(x_0) \\
&\Leftrightarrow f(x_0) = y_0 = g(x_0) \\
&\Leftrightarrow x_0 \in \{x \mid f(x) = y = g(x)\}
\end{aligned}
$$

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

$$
\begin{aligned}
x_0 \in \{x \mid f(x) = g(x)\} &\Leftrightarrow f(x_0) = g(x_0) \\
&\Leftrightarrow f(x_0) = y_0 = g(x_0) \\
&\Leftrightarrow x_0 \in \{x \mid f(x) = y = g(x)\}
\end{aligned}
$$

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

Github:
https://min7014.github.io/math20210814001.html

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