무리방정식 풀이의 기본원리 (Basic Principle of Solving Irrational Equations)





$$f = g$$



$$\begin{array}{rcl}
f & = & g \\
& & \downarrow \\
f^2 & = & g^2
\end{array}$$



$$\begin{array}{rcl}
f & = & g \\
\downarrow & & \downarrow \\
f^2 & = & g^2 \\
\downarrow & & \downarrow \\
f^2 - g^2 & = & 0
\end{array}$$



$$\begin{array}{rcl}
f & = & g \\
\downarrow & & \downarrow \\
f^2 & = & g^2 \\
\updownarrow & & \downarrow \\
f^2 - g^2 & = & 0 \\
\updownarrow & & \downarrow \\
(f+g)(f-g) & = & 0
\end{array}$$





$$f = g$$

$$\downarrow \qquad \qquad \downarrow \qquad \qquad \downarrow$$





$$f = g$$

$$\downarrow \qquad \qquad \downarrow \qquad \qquad \downarrow$$



$$f = g$$

$$\downarrow \qquad \qquad \downarrow \qquad \qquad \downarrow$$

Github:

https://min7014.github.io/math20210216001.html

Click or paste URL into the URL search bar, and you can see a picture moving.