

분수방정식 풀이의 기본원리

(Basic Principles of Solving Fractional Equations)

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When h

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▶ End

When h is the least common multiple

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▶ End

When h is the least common multiple of the denominators

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When h is the least common multiple of the denominators of the fractional f

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When h is the least common multiple of the denominators of the fractional f

$$f = 0$$

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▶ End

When h is the least common multiple of the denominators of the fractional f

$$\begin{array}{rcl} f & = & 0 \\ \Downarrow & & \\ hf & = & 0 \end{array}$$

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When h is the least common multiple of the denominators of the fractional f

$$\begin{aligned} f &= 0 \\ &\Downarrow \\ hf &= 0 \\ &\Updownarrow \\ h = 0 &\text{ or } f = 0 \end{aligned}$$

▶ Start

▶ End

When h is the least common multiple of the denominators of the fractional f

$$f = 0$$

$$\Downarrow$$

$$hf = 0$$

$$\Updownarrow$$

$$h = 0 \quad \text{or} \quad f = 0$$

$$\therefore f = 0$$

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▶ End

When h is the least common multiple of the denominators of the fractional f

$$f = 0$$

$$\Downarrow$$

$$hf = 0$$

$$\Updownarrow$$

$$h = 0 \quad \text{or} \quad f = 0$$

$$\therefore f = 0 \Leftrightarrow$$

▶ Start

▶ End

When h is the least common multiple of the denominators of the fractional f

$$\begin{aligned} f &= 0 \\ &\Downarrow \\ hf &= 0 \\ &\Updownarrow \\ h = 0 &\text{ or } f = 0 \end{aligned}$$

$$\therefore f = 0 \Leftrightarrow hf = 0 \text{ and } h \neq 0$$

▶ Start

▶ End

When h is the least common multiple of the denominators of the fractional f

$$\begin{aligned} f &= 0 \\ &\Downarrow \\ hf &= 0 \\ &\Updownarrow \\ h = 0 &\text{ or } f = 0 \end{aligned}$$

$$\therefore f = 0 \Leftrightarrow hf = 0 \text{ and } h \neq 0$$

Github:

<https://min7014.github.io/math20210208001.html>

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and you can see a picture moving.