

④ $\frac{4a}{3+a}$ excluded values

$3+a=0$
 $a \neq -3$

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⑤ $\frac{x^2-9}{2x-6}$ $\rightarrow 2x-6=0$
 $x \neq 3$

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⑥ $\frac{n+5}{n^2+n-20}$ $n^2+n-20=0$
 $(n+5)(n-4)=0$
 $n+5=0 \left\{ \begin{array}{l} n-4=0 \\ n \neq -5 \end{array} \right. \left\{ \begin{array}{l} n=4 \\ n \neq 4 \end{array} \right.$

$\frac{n^2+n-20}{n^2+n-20} \xrightarrow{-20} \frac{-20}{-120}$
 $\frac{n^2-4n+5n-20}{n^2+n-20} \xrightarrow{-2, 10} \frac{-2, 10}{-4, 5}$

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⑧ $\frac{x^2-49}{x+7}$ $x+7=0$
 $x \neq -7$

$\frac{(x+7)(x-7)}{(x+7)}$
 $(x-7)$ and $x \neq -7$

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⑨ Simplify the expression $\frac{x^2+8x+16}{x+4}$ excluded values

$\frac{x^2+8x+16}{x+4} \rightarrow x^2+8x+16=0$
 $(x+4)(x+4)=0$
 $x+4=0 \left\{ \begin{array}{l} x+4=0 \\ x \neq -4 \end{array} \right. \left\{ \begin{array}{l} x=-4 \\ x \neq -4 \end{array} \right.$

$\frac{(x+4)^1}{(x+4)(x+4)}$
 $\frac{1}{x+4}$ and $x \neq -4$

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⑩ $\frac{x^2-2x-3}{x^2-7x+12}$ $x^2-7x+12=0$
 $(x-4)(x-3)=0$
 $x \neq 4, x \neq 3$

$\frac{(x-3)(x+1)}{(x-4)(x-3)}$
 $\frac{x+1}{x-4}$ and $x \neq 3, 4$

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hwk

12-2 # 17-4/ add
57,58,59 all

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