

③  $\frac{1}{12} - \frac{5}{16}$

$\frac{1}{2 \cdot 2 \cdot 3} - \frac{5}{2 \cdot 2 \cdot 2 \cdot 2}$

$\frac{1 \cdot 2 \cdot 2}{2 \cdot 2 \cdot 2 \cdot 2 \cdot 3} - \frac{5 \cdot 3}{2 \cdot 2 \cdot 2 \cdot 2 \cdot 3}$

$\frac{4}{48} - \frac{15}{48}$

$\frac{-11}{48}$

④  $\frac{x-3}{x+5} - \frac{x+3}{x-5}$

$\frac{(x-3)(x-5)}{(x+5)(x-5)} - \frac{(x+3)(x+5)}{(x+5)(x-5)}$

$\frac{x^2 - 5x - 3x + 15}{(x+5)(x-5)} - \frac{x^2 + 5x + 3x + 15}{(x+5)(x-5)}$

$\frac{x^2 - 8x + 15}{(x+5)(x-5)} - \frac{x^2 + 8x + 15}{(x+5)(x-5)}$

$\frac{x^2 - x^2 - 8x - 8x + 15 - 15}{(x+5)(x-5)}$

$\frac{-16x}{(x+5)(x-5)}$

⑤  $\frac{x}{x+2} - \frac{-3}{x^2+4x+4}$  (PSD)

$\frac{x}{x+2} - \frac{-3}{(x+2)(x+2)}$

$\frac{x(x+2)}{(x+2)(x+2)} - \frac{-3}{(x+2)(x+2)}$

$\frac{x^2+2x}{(x+2)(x+2)} - \frac{-3}{(x+2)(x+2)}$

$\frac{x^2+2x+3}{(x+2)(x+2)}$

⑥  $\frac{3x+2}{2x-12} - \frac{x+4}{x-6}$

(GCF)  $\frac{3x+2}{2(x-6)} - \frac{x+4}{x-6}$

$\frac{3x+2}{2(x-6)} - \frac{2(x+4)}{2(x-6)}$

$\frac{3x+2}{2(x-6)} - \frac{2x+8}{2(x-6)}$

$\frac{3x-2x+2-8}{2(x-6)}$

$\frac{x-6}{2(x-6)}$

$\frac{1}{2}$

⑦  $\frac{x-3}{x^2-4x} - \frac{7x+1}{4-x}$

(GCF)  $\frac{x-3}{x(x-4)} - \frac{7x+1}{4-x}$  (wo)

$\frac{x-3}{x(x-4)} - \frac{7x+1}{-x+4}$  (GCF)

$\frac{x-3}{x(x-4)} - \frac{7x+1}{-(x-4)}$

$\frac{x-3}{x(x-4)} + \frac{7x+1}{x-4}$

$\frac{x-3}{x(x-4)} + \frac{x(7x+1)}{x(x-4)}$

$\frac{x-3}{x(x-4)} + \frac{7x^2+x}{x(x-4)}$

$\frac{7x^2+x+x-3}{x(x-4)}$

$\frac{7x^2+2x-3}{x(x-4)}$