

次の式を計算せよ。

$$(1) \frac{5x+1}{2x-1} + \frac{x-4}{2x-1}$$

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

$$(2) \frac{1}{x+2} - \frac{3}{3x+7}$$

$$(5) \frac{2x-1}{x^2-x-6} - \frac{2x+1}{x^2+x-12}$$

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

$$(6) \frac{x-2}{2x^2-5x+3} + \frac{3x-1}{2x^2+x-6} + \frac{2x-5}{x^2+x-2}$$