

Section 2: Rational expressions

Exercise level 2

1. Express as a single fraction

(i)
$$\frac{2}{x+3} + \frac{1}{x-5}$$
 (ii) $\frac{5}{2x-3} - \frac{2}{4x+1}$
(iii) $t - \frac{5}{3t-1}$

2. Express as a single fraction

(i)
$$\frac{1}{2(x+5)} - \frac{1}{4(x+1)}$$
 (ii) $\frac{3u}{u^2 - 4u + 4} + \frac{1}{2-u}$

3. Solve these equations:

(i)
$$\frac{3x}{4} - \frac{x}{6} = 7$$
 (ii) $\frac{30}{2x-5} + \frac{27}{2x+1} = 13$

- 4. Divide
 - (i) $3x^3 x^2 + 2x 4$ by x + 2
 - (ii) x^3 by $x^2 + 2$
 - (iii) 6x 2 by 2x + 3

