Higher Maths Sample 2 P2 Q7b

(b) Solve the equation $\frac{x-7}{4} + \frac{2x+5}{8} = \frac{1}{2}$.

[4]

Higher Maths Nov 2016 P2 Q9b

(b) Solve the equation $\frac{4x-3}{2}+\frac{7x+1}{6}=\frac{29}{2}$. [4]

Higher Maths Nov 2016 P1 Q12

Express $\frac{3x}{3x+2}-\frac{2x}{2x+7}$ as a single fraction in its simplest form. [3]

Higher Maths Sample 1 P2 Q13

(a) Express $\frac{x}{x-3}-\frac{x}{x+6}$ as a single fraction in its simplest form. [3]

(b) Simplify $\frac{49x^2-100}{14x+20}$. [4]

Higher Maths Sample 2 P2 Q14

(a) Show that the equation $\frac{3}{2x-1}-\frac{5}{x+4}=6$ can be written as $12x^2 + 49x - 41 = 0$.

[4]

(b) Hence solve the equation $\frac{3}{2x-1}-\frac{5}{x+4}=6.$

Give your answers correct to 2 decimal places. [3]

Higher Maths Summer 2018 P2 Q15

Express the following as a single fraction in its simplest form. [4]

$$\frac{2}{3x-5}-\frac{7}{11x-13}$$

Higher Maths Nov 2018 P1 Q16

Simplify the following expression.

$$\frac{4x^2-7x-2}{4x-8}$$ [4]

Higher Maths Nov 2018 P2_Q18

Solve the equation $\frac{7x+1}{5x+2} = \frac{1}{x+3}$.

Give your answers correct to 2 decimal places.
You must show all your working. [6]

Higher Maths Summer 2019 P1 Q19

(a) Write the following expression as a single fraction.
Give your answer in its simplest form. [2]

$$\frac{1}{x-a} - \frac{1}{x}$$

(b) Solve the following equation. [5]

$$\frac{x-1}{x(4x+3)} + 2 = 0$$
