Algebraic fractions Int 2 PP 2001 -2008

2001 P1

A 8. (*a*) Express $\frac{3}{x}-\frac{5}{x+2}$, $x \neq 0$, $x \neq -2$, as a single fraction in its simplest form. 3

2002 P1

B (*b*) Express as a fraction in its simplest form

$$\frac{1}{x^2}+\frac{1}{x}, \qquad x \neq 0.$$ 2

2002 P2

C (*b*) Hence express $\frac{3y^2-6y}{y^2+y-6}$ in its simplest form. 2

2003 P1

D (*b*) Simplify $\frac{2x+2}{(x+1)^2}$. 2

2003 P2

E (*b*) Express

$$\frac{a}{x}-\frac{b}{y}, \qquad x \neq 0, \quad y \neq 0,$$

as a fraction in its simplest form. 2

2004 P2

F 11. (*a*) Express $\frac{4}{x+3}+\frac{3}{x}$, $x \neq -3$, $x \neq 0$,

as a single fraction in its simplest form. 3

2005 P2

G (*b*) Express $\frac{a}{b} \times \frac{3b}{a^2}$ as a fraction in its simplest form. 2

Algebraic fractions Int 2 PP 2001 -2008

2006 P2

H 7. Express

$$\frac{3}{(x+1)} - \frac{1}{(x-2)}, \quad x \neq -1, \quad x \neq 2$$

as a single fraction in its simplest form. 3

2007 P2

I (b) Simplify

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

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2007 P2

S 10. Express $\frac{5p^2}{8} \div \frac{p}{2}$ as a fraction in its simplest form. 3

2008 P2

K 11. Express

$$\frac{2}{a} - \frac{3}{(a+4)}, \quad a \neq 0, \; a \neq -4,$$

as a single fraction in its simplest form. 3