



Algebraic Fractions

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16 Simplify this fraction.

$$\frac{x^2 - 5x + 6}{x^2 - 4}$$

Answer

[4]

2) June 2010 V2

4 Write as a single fraction $\frac{3a}{8} + \frac{4}{5}$

Answer

.....

[2]

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3) June 2010 V3

- 8 Write as a single fraction in its simplest form

$$\frac{x}{3} + \frac{x-1}{2}.$$

Answer [2]

4) November 2010 V1

- 7 Write as a single fraction in its simplest form.

$$\frac{2}{x} + \frac{1}{2x} + \frac{1}{2}$$

Answer
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[2]

- 12 Write as a single fraction, in its simplest form.

$$\frac{3}{x+2} - \frac{2}{x-1}$$

Answer

[3]



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6) November 2010 V3

24 (a) Write $\frac{1}{y} - \frac{2}{x}$ as a single fraction in its lowest terms.

Answer(a)

[2]

(b) Write $\frac{x^2 + x}{3x + 3}$ in its lowest terms.

Answer(b)

[3]

7) June 2011 V2

15 Write the following as a single fraction in its simplest form.

$$\frac{x+1}{x+5} - \frac{x}{x+1}$$

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Answer [4]

- 16 Write $\frac{2}{x-2} + \frac{3}{x+2}$ as a single fraction.

Give your answer in its simplest form.

Answer [3]

- 10 Write as a single fraction in its simplest form.

$$\frac{3}{x+10} - \frac{1}{x+4}$$

Answer [3]

18 Write as a single fraction, in its simplest form.

$$\frac{1}{x} - \frac{2+x}{1-2x}$$

Answer [4]

13 Write the following as a single fraction in its simplest form.

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

Answer [3]

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21 Simplify the following.

$$\frac{h^2 - h - 20}{h^2 - 25}$$

Answer [4]

13) June 2012 V3

20 Simplify fully.

$$\frac{x^2 - x - 20}{x^3 - 10x^2 + 25x}$$

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Answer [5]

18 (a) Factorise $x^2 + x - 30$.

Answer(a) [2]

(b) Simplify $\frac{(x - 5)(x + 4)}{x^2 + x - 30}$.

Answer(b) [1]

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- 22 Write as a single fraction in its simplest form.

$$\frac{2}{x+3} + \frac{3}{x+2}$$

Answer [3]

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13 Write as a single fraction in its simplest form.

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

Answer [4]

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14 Write as a single fraction in its simplest form.

$$3 - \frac{t+2}{t-1}$$

Answer [3]

18) June 2014 V1

8 Write as a single fraction in its simplest form.

$$\frac{2}{x} - \frac{2}{x+1}$$

Answer [3]

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12 Solve the equation.

$$\frac{3}{2x} + \frac{1}{x+1} = 0$$

Answer $x =$ [3]

19 Simplify.

$$\frac{x^2 + 6x - 7}{3x + 21}$$

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Answer [4]

- 21 (a) Write as a single fraction in its simplest form.

$$\frac{3}{2x-1} - \frac{1}{x+2}$$

Answer(a) [3]

- (b) Simplify.

$$\frac{4x^2 - 16x}{2x^2 + 6x - 56}$$

Answer(b) [4]

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- 13 Write as a single fraction, in its simplest form.

$$\frac{3}{2x} + \frac{2x}{3} + 3 + 2x$$

Answer [4]

- 15 Write as a single fraction in its simplest form.

$$\frac{3}{x+2} - \frac{4}{2x-5}$$

Answer [3]

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15 Simplify.

$$\frac{x^2 - 16}{x^2 - 3x - 4}$$

Answer [4]

25) November 2015 V3

11 Write the following as single fractions.

(a) $x + \frac{x}{2}$

Answer(a) [1]

(b) $x + \frac{2}{x}$

Answer(b) [1]

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22 Simplify.

$$\frac{4 + 10w}{8 - 50w^2}$$

Answer [4]

7 Simplify.

$$\frac{x^3y + 2xy^3}{x^2y^2}$$

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..... [2]

28) November 2016 V1

8 Write as a single fraction.

$$1 - \frac{2}{p} - \frac{3}{t}$$

..... [2]

29) November 2016 V3

23 Simplify.

$$\frac{42np - 7n}{12pt - 2t + 18mp - 3m}$$

..... [4]

30) November 2020 V2

26 Simplify.

$$\frac{ux - 2u - x + 2}{u^2 - 1}$$

..... [4]

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