

Algebraic Fractions (B)



Section A

Work out the following and simplify where possible.

1) $\frac{ac}{b} \times \frac{b}{c}$

2) $\frac{a+b}{3ab} \times \frac{6a^2}{2a+2b}$

3) $\frac{x^2}{x^2-2x} \times \frac{3+x}{x}$

4) $\frac{(3x+2)^2}{6x} \times \frac{x^4}{6x+4}$

5) $\frac{x^2y^2}{y} \div \frac{x^4y}{x}$

6) $\frac{b-3}{2b^2-5b-3} \div 2b-6$

7) $\frac{1}{y^2+3y+2} \div \frac{2}{y^2-4}$

8) $\frac{a^2(a-2)}{y^2} \div \frac{a(a-2)}{y^2}$

Section B

Write the following as single fractions.

1) $\frac{x}{5} + 4$

2) $y - \frac{6}{y}$

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

4) $\frac{1}{3w+5} + 9$

5) $6 + \frac{3}{x+2} + x$

6) $\frac{3}{x} + \frac{5}{x}$

7) $\frac{7a}{4} + \frac{11a}{4}$

8) $\frac{5b}{3} - \frac{9b}{2}$

9) $\frac{1}{2y} + \frac{7}{y}$

10) $\frac{6}{4k} - \frac{5}{6k}$

11) $\frac{r}{p} - \frac{4p}{q}$

12) $\frac{x}{8} + \frac{1}{x+2}$

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

14) $\frac{3}{y-1} - \frac{1}{y+2}$

15) $\frac{6}{1-2b} - \frac{b}{3+b}$

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

17) $7 - \frac{x-4}{4x(x-2)}$

18) $\frac{3y+1}{(y-2)^2} + \frac{y}{y-2}$

19) $\frac{w}{w^2-1} + \frac{w+1}{w-1}$

20) $\frac{1}{x^2+5x+4} + \frac{1}{x^2+7x+12}$

21) $\frac{2}{2x^2+5x-3} - \frac{3}{3x^2+11x+6}$

Algebraic Fractions Worksheet With Answers

Jann H. Leppien, Jeanne H. Purcell



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