Answers: Introduction to algebraic fractions

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Summary

Answers to questions relating to the guide on the introduction to algebraic fractions.

These are the answers to Questions: Introduction to algebraic fractions.

Please attempt the questions before reading these answers!

Q1

1.1. $x \neq 0$

1.2. $x \neq 4$

1.3. $x \neq -\frac{1}{2}$

1.4. $x \neq -5$

1.5. $x \neq 0$, $x \neq \frac{2}{3}$

1.6. $x \neq -2$, $x \neq 3$

1.7. $x \neq -4$, $x \neq 4$

1.8. $x \neq 1$

1.9. $x \neq -4$, $x \neq 0$

1.10. $x \neq -3$, $x \neq \frac{5}{2}$

1.11. $x \neq 2$, $x \neq 3$

1.12. $x \neq -4$, $x \neq 2$

Q2

2.1. $3x$

2.2. $5x$

2.3. $3x + 3$

2.4. $12x$

2.5. 10

2.6. $2x - 6$

2.7. $3x - 3$

2.8. $3x$

2.9. $6x$

2.10. $6x - 3$

2.11. $x(x + 1)$

2.12. $x^2 + x - 6$

2.13. $4x(x + 1)$

2.14. $3x - 15$

2.15. $2x - 10$

Q3

3.1. $\frac{2}{3}$

3.2. $\frac{x}{3}$

3.3. $x + 4$

3.4. $\frac{x - 3}{2}$

3.5. $-\frac{2}{5}$

3.6. $x + 4$

3.7. $x - 1$

3.8. $x + 3$

3.9. $x + 5$

3.10. $2x + 1$

3.11. $x - 5$

3.12. -1

3.13. 2

3.14. x

3.15. $\dfrac{x+2}{x+5}$

Version history and licensing

v1.0: initial version created 12/25 by Donald Campbell as part of a University of St Andrews VIP project.