Answers: Arithmetic on algebraic fractions

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Summary

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

These are the answers to Questions: Arithmetic on algebraic fractions.

Please attempt the questions before reading these answers!

Q1

1.1. $\dfrac{7}{x}$

1.2. $\dfrac{2x-1}{3}$

1.3. $\dfrac{3}{y}$

1.4. $\dfrac{1}{x}$

1.5. -1

1.6. $\dfrac{3}{2x}$

1.7. $\dfrac{7}{15y}$

1.8. $\dfrac{x}{2}$

1.9. $\dfrac{5x+2}{x(x+1)}$

1.10. $\dfrac{6}{x-1}$

1.11. $\dfrac{6}{x-3}$

1.12. $\dfrac{x-6}{(x+2)(x-2)}$

1.13. $\dfrac{3x+1}{x^2}$

1.14. $\dfrac{x(2x-3)}{(x-3)(x+3)}$

1.15. $\dfrac{x^2-x-5}{(x+2)^2}$

Q2

2.1. $\dfrac{2x}{15}$

2.2. 6

2.3. $\dfrac{x(x+1)}{6}$

2.4. $\dfrac{3}{4}$

2.5. $\dfrac{x-3}{4}$

2.6. $-\dfrac{6}{x}$

2.7. $\dfrac{x}{2}$

2.8. $\dfrac{x+2}{x+3}$

2.9. $\dfrac{3}{4}$

2.10. $\dfrac{x+3}{x+1}$

2.11. $-\dfrac{3}{2}$

2.12. $\dfrac{2x}{3(x-2)}$

Q3

3.1. $\dfrac{5}{2}$

3.2. 6

3.3. $\dfrac{1}{2}$

3.4. $\dfrac{3x}{2}$

3.5. $\dfrac{4(x-2)}{3x}$

3.6. $\dfrac{x-1}{x}$

3.7. -6

3.8. 2

3.9. $\dfrac{1}{2}$

3.10. $\dfrac{x+3}{x-3}$

3.11. 2

3.12. $\dfrac{3(x+2)}{2x}$

Q4

4.1. $\dfrac{x+y}{y}$

4.2. $-\dfrac{6x}{x+2}$

4.3. $\dfrac{1}{2}$

4.4. $\dfrac{x+2}{3x}$

4.5. $-\dfrac{2x(x+1)}{x-1}$

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