

Simplifying Algebraic Fractions

Simplify, where possible:

1. $\frac{2(x+3)}{3(x+3)}$

2. $\frac{2(x+3)}{(x+3)}$

3. $\frac{(x+3)}{2(x+3)}$

4. $\frac{x+3}{2x+6}$

5. $\frac{(x+3)(x+4)}{2x+6}$

6. $\frac{(x+3)(x+4)}{2x+8}$

7. $\frac{x^2+7x+12}{2x+8}$

8. $\frac{x^2+7x+12}{(x+4)(x-9)}$

9. $\frac{x^2+7x+12}{x^2-5x-36}$

10. $\frac{2x^2+14x+24}{x^2-5x-36}$

11. $\frac{2x^2+14x+24}{3x^2-15x-108}$

12. $\frac{2x^2+14x+24}{3x^2+4x-15}$

13. $\frac{14x-24-2x^2}{3x^2+4x-15}$

14. $\frac{14x-24-2x^2}{3x^2-4x-15}$

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

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10. $\frac{2(x+3)}{x-9}$

11. $\frac{2(x+3)}{3(x-9)}$

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13. $-\frac{2(x-3)(x-4)}{(3x-5)(x+3)}$

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