

Some Algebra for Calculus Students

Simplify the Radicals.

1. $x^{7/3}$

2. $y^{3/2}$

3. $z^{4/3}$

4. $x^{5/3}$

5. $y^{8/3}$

6. $z^{5/4}$

7. $x^{8/5}$

8. $y^{7/4}$

9. $z^{5/2}$

10. $x^{7/2}$

11. $x^{-7/3}$

12. $y^{-3/2}$

13. $z^{-4/3}$

14. $x^{-5/3}$

Factor Out the Greatest Common Factor

15. $2x + 6x^{1/2}$

16. $4x^{1/2} - 12x^{3/2}$

17. $x - 5x^{2/3}$

18. $x + 6x^{1/3}$

19. $5x + 10x^{-1/2}$

20. $4x^{1/3} - 6x$

21. $9x + 3x^{-1/3}$

22. $15x^{1/3} - 25x^{1/2}$

23. $4x^{-3/2} + 9x$

25. $7x^2 - 12x^{-1}$

25. $6x^2 + 24x^{-3}$

26. $12x^{2/3} - 10x^{-2/3}$