

Pg 301 # 10-36

Find the real or imaginary solutions of each equation by factoring.

◀ See Problems 1 and 2.

10. $x^3 + 64 = 0$

11. $x^3 - 1000 = 0$

12. $125x^3 - 27 = 0$

13. $64x^3 - 1 = 0$

14. $x^3 + 2x^2 + 5x + 10 = 0$

15. $6x^2 + 13x - 5 = 0$

16. $0 = x^3 - 27$

17. $0 = x^3 - 64$

18. $8x^3 = 1$

19. $64x^3 = -8$

20. $x^4 - 10x^2 = -9$

21. $x^4 - 8x^2 = -16$

22. $x^4 - 12x^2 = 64$

23. $x^4 + 7x^2 = 18$

24. $x^4 + 4x^2 = 12$

Find the real solutions of each equation by graphing.

◀ See Problem 3.

25. $x^3 - 4x^2 - 7x = -10$

26. $3x^3 - 6x^2 - 9x = 0$

27. $4x^3 - 8x^2 + 4x = 0$

28. $6x^2 = 48x$

29. $x^3 + 3x^2 + 2x = 0$

30. $2x^3 + 5x^2 = 7x$

31. $4x^3 = 4x^2 + 3x$

32. $2x^4 - 5x^3 - 3x^2 = 0$

33. $x^2 - 8x + 7 = 0$

34. $x^4 - 4x^3 - x^2 + 16x = 12$

35. $x^3 - x^2 - 16x = 20$

36. $3x^3 + 12x^2 - 3x = 12$