

Pre-Calculus

Finding All Complex Roots

Find all the zeros of each of the following polynomials.

1) $f(x) = x^3 - 64$

2) $g(x) = x^4 + 3x^3 - 13x^2 - 15x$

3) $h(x) = x^3 + 9x^2 + 23x + 15$

4) $p(x) = x^3 - 3x^2 - 9x + 27$

5) $g(x) = x^4 + 8x^2 - 48$

6) $f(x) = 27x^3 + 8$

7) $f(x) = 4x^3 - 6x^2 + 1$

8) $g(x) = x^4 - 5x^3 + 7x^2 - 15x + 12$

9) $j(x) = x^3 + 5x^2 - 7x - 35$

10) $g(x) = 3x^3 - 5x^2 - 8x - 2$

11) $m(x) = 4x^3 - 16x^2 + 5x - 20$

12) $f(x) = 2x^4 - 2x^3 + 6x^2 + 10x$