

Pre-Calculus

Section 2.2

Determine the roots (zeros) of each polynomial function.

1.  $f(x) = x^3 + 17x^2 + 42x$

2.  $f(x) = x^3 + 7x^2 - 30x$

3.  $f(x) = x^3 - 9x^2 - 10x$

4.  $f(x) = x^3 - 17x^2 + 30x$

5.  $f(x) = 3x^3 - 27x$

6.  $f(x) = 5x^3 - 80x$

7.  $f(x) = x^4 - 6x^2 + 8$

8.  $f(x) = x^4 - 9x^2 + 20$

9.  $f(x) = x^4 - 8x^2 + 15$

10.  $f(x) = x^4 - 12x^2 + 27$

11.  $f(x) = x^4 - 7x^2 + 10$

12.  $f(x) = x^4 - 11x^2 + 24$