

- Use your calculator to find all of the real zero(s).
- Use synthetic division with the real zero(s) to get a depressed polynomial of degree 2.
- Find the remaining roots without using a graphing calculator.

1.  $f(x) = x^3 + 5x^2 + 11x + 15$

2.  $g(x) = x^3 - 10x^2 + 18x - 4$

3.  $h(x) = 6x^4 - 17x^3 + 8x^2 + 8x - 3$

4.  $m(x) = x^4 + 4x^3 + 5x^2 + 4x + 4$

5.  $t(x) = 4x^4 + 5x^3 + 30x^2 + 45x - 54$

- Use your calculator to find all of the real zero(s).
- Use synthetic division with the real zero(s) to get a depressed polynomial of degree 2.
- Find the remaining roots without using a graphing calculator.

6.  $p(x) = x^3 - 3x^2 + 2$

7.  $f(x) = 6x^3 - 25x^2 + 2x + 8$

8.  $g(x) = 5x^3 - x^2 - 18x + 8$

9.  $h(x) = x^4 - 2x^3 - 9x^2 + 10x - 24$

10.  $m(x) = 2x^4 + 5x^3 - 18x^2 - 19x + 42$