Fundamental Theorem of Algebra

A polynomial to the degree of

State the possible number of zeros, real and imaginary. State all the possible rational zeros.

$f(x) = x^3 + 11x^2 - x - 11$

State the possible number of zeros, real and imaginary. State all the possible rational zeros.

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

State the possible number of zeros, real and imaginary. State all the possible rational zeros.

$f(x) = x^3 - 3x^2 - 3x + 9$

State the possible number of zeros, real and imaginary. State all the possible rational zeros.

$f(x) = x^3 - x^2 - 15x - 25$

State the possible number of zeros, real and imaginary. State all the possible rational zeros.

$f(x) = x^4 - x^2 - 56$

State the possible number of zeros, real and imaginary. State all the possible rational zeros.

$f(x) = x^5 + 2x^4 - 2x^3 - 4x^2 - 15x - 30$