Algebra 2 Name_____

Solve Polynomials #2

State the possible rational zeros for each function. Then find all rational zeros.

1) $f(x) = x^3 + 7x^2 + 11x + 5$

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

3) $f(x) = x^3 + x^2 - 5x - 125$

4) $f(x) = x^4 + 6x^3 - 26x^2 + 20x$

5) $f(x) = x^4 + 13x^3 + 60x^2 + 100x$

6) $f(x) = x^4 - 11x^3 - x^2 + 11x$

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

8) $f(x) = 6x^4 - 39x^3 + 64x^2 - 10x$