

Name _____

Date _____

Ms. Schmidt

Pre-Calculus

Homework

1) Given the real, rational roots, find the polynomial function:

a. $\{-4, \frac{1}{2}, 0, 0\}$

b. $\{2, 4 \pm \sqrt{5}\}$

For each of the following functions find: a) all possible rational zeros, and b) list all rational zeros.

2) $f(x) = x^4 - x^3 - 2x - 4$

3) $f(x) = 4x^4 - 55x^2 - 45x + 36$

4) For each of the following polynomials, state the possible number of positive and negative zeros for each function.

a. $g(x) = 2x^4 + 7x^3 - 26x^2 + 23x - 6$

b. $f(x) = 4x^4 - 55x^2 - 45x + 36$