

Topic 8.5
Rational Zero Theorem
Homework

Name: _____

Date: _____

List all of the possible rational zeros of each function.

1) $f(x) = x^3 - 4x^2 - 14$

2) $f(x) = 2x^3 - 4x + 8$

3) $f(x) = 4x^5 + 4x^2 - 9$

Find all of the rational roots of each function.

4) $f(x) = x^3 + 2x^2 - 5x - 6$

5) $f(x) = 2x^3 + x^2 + 8x + 4$

Find all of the zeros of each function.

6) $f(x) = 2x^4 - 13x^3 - 34x^2 + 65x + 120$

7) $f(x) = 4x^4 + 19x^2 - 63$