

The Rational Root Theorem

Date _____ Period _____

State the possible rational zeros for each function.

1) $f(x) = 3x^2 + 2x + 12$

2) $f(x) = x^6 - 64$

3) $f(x) = x^2 + 8x + 10$

4) $f(x) = 5x^3 - 2x^2 + 20x - 8$

5) $f(x) = 4x^5 - 2x^4 + 30x^3 - 15x^2 + 50x - 25$

6) $f(x) = 5x^4 + 32x^2 - 21$

7) $f(x) = x^3 - 27$

8) $f(x) = 2x^4 - 9x^2 + 7$