

2.4 Rational Root Theorem

Problem 1 asks the Rational Root Theorem to find all rational roots of polynomials.

Do Now: Write a polynomial equation for the graph.

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

$$f(0) = (2)^3(-1)^2 = 8$$



If asked to factor $f(x) = x^4 + x^3 - 3x + 3$, what are some possible factors that could work? Do you think I would divide into the polynomial? (How about 3? Why or why not?) $\pm 1, \pm 3$

The Rational Root Theorem

If $f(x) = a_n x^n + a_{n-1} x^{n-1} + \dots + a_1 x + a_0$ has integer coefficients and $\frac{p}{q}$

is a rational root, then p is a factor of the constant term a_0 and q is a factor of the leading coefficient a_n .

$$\text{Possible rational roots} = \frac{\text{Factors of the constant term}}{\text{Factors of the leading coefficient}} = \frac{p}{q}$$

List all possible rational roots of $f(x) = 5x^3 - 41x^2 - 50x + 7$. Then factor the polynomial completely and graph it.

$$f(x) = (x-1)(5x-1)(x-7)(x-1) = (x-1)^2(5x-1)(x-7)$$

$$\begin{array}{r} 5x^3 - 41x^2 - 50x + 7 \\ \underline{-(5x^3 - 5x^2)} \\ 36x^2 - 50x + 7 \\ \underline{-(36x^2 - 36x)} \\ 16x - 50x + 7 \\ \underline{-(16x - 16)} \\ -34x + 7 \end{array}$$

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Factor the following polynomials completely using the rational root theorem. Then graph the polynomial.

$$1. f(x) = 3x^3 - 3x^2 - 12x + 6$$

$$\text{Possible rational roots: } \frac{p}{q} = \frac{\pm 1, \pm 2, \pm 3, \pm 6}{\pm 1, \pm 2} = \pm 1, \pm 2, \pm 3, \pm 6, \pm \frac{1}{2}, \pm \frac{3}{2}$$

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

Synthetic division work:

$$\begin{array}{r} -2 3 -12 6 \\ \underline{-2 6 -24 12} \\ 2 -5 -6 \end{array}$$

$$\begin{array}{r} 1 3 -12 6 \\ \underline{1 3 -12 6} \\ 2 -1 -12 \end{array}$$

$$\begin{array}{r} 2 3 -12 6 \\ \underline{2 6 -24 12} \\ 2 1 -6 \end{array}$$

$$\begin{array}{r} -2 3 -12 6 \\ \underline{-2 6 -24 12} \\ 2 -5 -6 \end{array}$$

$$\begin{array}{r} 2x^3 - 3x^2 - 12x + 6 \\ \underline{-(2x^3 - 6x^2 + 6x - 6)} \\ 3x^2 - 9x + 12 \\ \underline{-(3x^2 - 6x + 6)} \\ -3x + 6 \\ \underline{-(-3x + 6)} \\ 0 \end{array}$$

$$\text{Zeros: } -2, \frac{1}{2}, 3$$

$$\uparrow f(0) = 6$$



Finding A Way Precalculus Tesccc Answer Key

Yi-Tong Ma



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