Name

Rational Root Theorem - Possible Roots Form (with Formula)

1

Valid rational roots are in the form p/q where p must be a factor of the constant and q must be a factor of the leading coefficient. What are the possible rational roots of this polynomial?

$f(x) = 6x^3 - 18x - 12$

A	B
factors of 12 / factors of 18	factors of 18 / factors of 6

2

Valid rational roots are in the form p/q where p must be a factor of the constant and q must be a factor of the leading coefficient. What are the possible rational roots of this polynomial?

$f(x) = 2x^3 - 14x + 12$

A	B
factors of 14 / factors of 2	factors of 12 / factors of 2

3

Valid rational roots are in the form p/q where p must be a factor of the constant and q must be a factor of the leading coefficient. What are the possible rational roots of this polynomial?

$f(x) = 2x^3 - 10x^2 + 6x + 18$

A	B
factors of 10 / factors of 2	factors of 18 / factors of 10

4

Valid rational roots are in the form p/q where p must be a factor of the constant and q must be a factor of the leading coefficient. What are the possible rational roots of this polynomial?

$f(x) = 2x^3 - 8x^2 - 8x + 32$

A	B
factors of 8 / factors of 2	factors of 32 / factors of 2

5

Valid rational roots are in the form p/q where p must be a factor of the constant and q must be a factor of the leading coefficient. What are the possible rational roots of this polynomial?

$f(x) = 4x^4 + 24x^3 + 4x^2 - 96x + 64$

A	B
factors of 24 / factors of 4	factors of 4 / factors of 64

6

Valid rational roots are in the form p/q where p must be a factor of the constant and q must be a factor of the leading coefficient. What are the possible rational roots of this polynomial?

$f(x) = 4x^4 - 4x^3 - 28x^2 + 4x + 24$

A	B
factors of 24 / factors of 28	factors of 4 / factors of 24

7

Valid rational roots are in the form p/q where p must be a factor of the constant and q must be a factor of the leading coefficient. What are the possible rational roots of this polynomial?

$f(x) = 2x^4 - 18x^2 - 8x + 24$

A	B
factors of 2 / factors of 24	factors of 24 / factors of 18

8

Valid rational roots are in the form p/q where p must be a factor of the constant and q must be a factor of the leading coefficient. What are the possible rational roots of this polynomial?

$f(x) = 4x^4 + 16x^3 - 64x - 64$

A	B
factors of 16 / factors of 4	factors of 64 / factors of 4