



Rational Root Theorem - Possible Roots Form

$$1 \quad f(x) = 2x^3 - 14x^2 + 28x - 16$$

What are the possible rational roots of this polynomial?

A	B	C	D
factors of 14	factors of 16	factors of 2	factors of 16
factors of 2	factors of 14	factors of 16	factors of 2

$$2 \quad f(x) = 4x^4 - 16x^3 - 12x^2 + 40x + 32$$

What are the possible rational roots of this polynomial?

A	B	C	D
factors of 16	factors of 4	factors of 32	factors of 32
factors of 4	factors of 32	factors of 4	factors of 16

$$3 \quad f(x) = 5x^5 - 40x^3 + 30x^2 + 35x - 30$$

What are the possible rational roots of this polynomial?

A	B	C	D
factors of 30	factors of 5	factors of 40	factors of 30
factors of 5	factors of 30	factors of 5	factors of 40

4 What are the possible rational roots of this polynomial?

$$f(x) = 6x^3 + 18x^2 - 24$$

A	factors of 24	B	factors of 24
	factors of 18		factors of 6
C	factors of 18	D	factors of 6
	factors of 6		factors of 24

$$5 \quad f(x) = 4x^4 + 24x^3 + 28x^2 - 24x - 32$$

What are the possible rational roots of this polynomial?

A	B	C	D
factors of 32	factors of 4	factors of 24	factors of 32
factors of 4	factors of 32	factors of 4	factors of 24

6 What are the possible rational roots of this polynomial?

$$f(x) = 5x^3 - 15x^2 + 20$$

A	factors of 5	B	factors of 15
	factors of 20		factors of 5
C	factors of 20	D	factors of 20
	factors of 15		factors of 5

$$7 \quad f(x) = 2x^4 + 16x^3 + 30x^2 - 16x - 32$$

What are the possible rational roots of this polynomial?

A	B	C	D
factors of 2	factors of 16	factors of 32	factors of 32
factors of 32	factors of 2	factors of 2	factors of 16

$$8 \quad f(x) = 2x^4 + 6x^3 - 28x^2 - 96x - 64$$

What are the possible rational roots of this polynomial?

A	B	C	D
factors of 64	factors of 2	factors of 6	factors of 64
factors of 6	factors of 64	factors of 2	factors of 2