

Irrational Root Theorem

Irrational roots of a polynomial occur in **conjugate pairs**.

if $a + b\sqrt{c}$ is a root, then $a - b\sqrt{c}$ is also a root.

Turn the following **roots** into factors

root

factor

Complex Root Theorem

Complex roots of a polynomial occur in **conjugate pairs**.

if $a + bi$ is a root, then $a - bi$ is also a root.

Turn the following **roots** into factors

root

factor

Write the polynomial function of least degree with the given roots

roots at $2i$, 4

Write the polynomial function of least degree with the given roots

roots at $-4\sqrt{3}$, -1

Write the polynomial function of least degree with the given roots

roots at $3 + 2i$, -7

Write the polynomial function of least degree with the given roots

roots at $1 - \sqrt{2}$, 5

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