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Finding the Poly	nomial of Least Degree

lame	
ate	Period

Factor Theorem:

If *b* is a zero of P(x), then (x - b) is a factor of P(x)

Turn the following zeros into factors

Zeros Factors Zeros Factors

Write the polynomial function of least degree with the given zeros.

zeros at 3, 1, -2

zeros at 5, 2, -1 multiplicity 2

Conjugate Zero Theorem

Imaginary Zeros

Imaginary zeros occur in conjugate pairs.

if a + bi is a zero, then a - bi is also a zero.

Turn the following zeros into factors

Zeros Factors Zeros Factors

Write the polynomial function of least degree with the given zeros.

zeros at 3i, 2

zeros at i, -4i

