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Synthetic Division with Imaginary Numbers

Name	
Date_	Period

Complex Root Theorem

Complex roots of polynomials occur in conjugate pairs.

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

Find all roots of P(x) given following roots.

$$P(x) = x^3 + 2x^2 + 9x + 18; 3i$$

Find all roots of P(x) given following roots.

$$P(x) = x^3 + x^2 - 29x + 91; 3 + 2i$$