

## Unit 2: Polynomial Equations

Sept 29, 2022

- Dividing Polynomials
- Remainder and Factor Theorems
- Solving Equations and Inequalities

$$\begin{array}{r}
 \text{divisor } 8 \overline{) 1251} \\
 \underline{8} \phantom{00} \\
 45 \phantom{00} \\
 \underline{40} \phantom{00} \\
 51 \phantom{00} \\
 \underline{48} \phantom{00} \\
 3
 \end{array}$$

quotient  
dividend  
remainder

Division Statement

$$1251 = 8(156) + 3$$

Quotient Form

$$\frac{1251}{8} = 156 + \frac{3}{8}$$

$$\begin{array}{r}
 1) \quad x+1 \overline{) x^3 + 2x^2 - 7x + 1} \\
 \underline{x^3 + x^2} \phantom{00} \\
 x^2 - 7x \phantom{00} \\
 \underline{x^2 + x} \phantom{00} \\
 -8x + 1 \phantom{00} \\
 \underline{-8x - 8} \phantom{00} \\
 9
 \end{array}$$

dividend  
divisor  
quotient  
remainder

$$\begin{aligned}
 x^3 + 2x^2 - 7x + 1 &= (x+1)(x^2 + x - 8) + 9 \\
 \frac{x^3 + 2x^2 - 7x + 1}{x+1} &= x^2 + x - 8 + \frac{9}{x+1}
 \end{aligned}$$

Division Statement

$$f(x) = d(x)q(x) + r(x)$$

Quotient Form

$$\frac{f(x)}{d(x)} = q(x) + \frac{r(x)}{d(x)}$$

$$\begin{aligned}
 f(x) &= \text{dividend} \\
 d(x) &= \text{divisor} \\
 q(x) &= \text{quotient} \\
 r(x) &= \text{remainder}
 \end{aligned}$$

# Polynomial Equations Unit Lesson 02

**Arturo Cuomo**



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