# 4-6: Remainder and Factor Theorems

Integrated Math III November 5, 2019

4-6: Remainder and Factor Theorems

- Grade yesterday's worksheet.
- Question to ponder.
- Grade and discuss last night's notes and note work.
- Question to ponder, revisited.
- Today's objective and work.

#### • Grade yesterday's worksheet.

- Question to ponder.
- Grade and discuss last night's notes and note work.
- Question to ponder, revisited.
- Today's objective and work.

- Grade yesterday's worksheet.
- **Question** to ponder.
- Grade and discuss last night's notes and note work.
- Question to ponder, revisited.
- Today's objective and work.

Think about this while we review note work. We'll talk about it after:

Think about this while we review note work. We'll talk about it after:

What is the point of synthetic substitution? Like in 4-6 1 a, can't we just "plug in" 4 for x to find f(4)?

- Grade yesterday's worksheet.
- Question to ponder.
- Grade and discuss last night's notes and note work.
- Question to ponder, revisited.
- Today's objective and work.

## Note Work Answers

4-6: Remainder and Factor Theorems

æ

(\*) \* 문 \* \* 문 \* · ·

- Grade yesterday's worksheet.
- Question to ponder.
- Grade and discuss last night's notes and note work.
- Question to ponder, revisited.
- Today's objective and work.

### Question to Ponder, Revisited

What is the point of synthetic substitution? Like in 4-6 1 a, can't we just "plug in" 4 for x to find f(4)?

### Question to Ponder, Revisited

What is the point of synthetic substitution? Like in 4-6 1 a, can't we just "plug in" 4 for x to find f(4)?

What do you think?

- Grade yesterday's worksheet.
- Question to ponder.
- Grade and discuss last night's notes and note work.
- Question to ponder, revisited.
- Today's objective and work.

Synthetic substitution is a new tool we can use with polynomials. It's based on the Remainder Theorem.

Use synthetic substitution to efficiently evaluate polynomials, find roots and factors, and solve problems.

Synthetic substitution is a new tool we can use with polynomials. It's based on the Remainder Theorem.

Use synthetic substitution to efficiently evaluate polynomials, find roots and factors, and solve problems.

Today's Classwork:

• 4-6: 9-27, 45-53 & 59 (odds only)

## End of Class

Today we started using a new tool, synthetic substitution. This technique based on the Remainder Theorem lets us evaluate and factor polynomials efficiently. We'll continue using this with the tools we already know, as well as with ones we'll build in the next couple lessons. Today we started using a new tool, synthetic substitution. This technique based on the Remainder Theorem lets us evaluate and factor polynomials efficiently. We'll continue using this with the tools we already know, as well as with ones we'll build in the next couple lessons.

Today's Homework:

- Finish classwork.
- Watch 4-7 video lessons and tutorials.
  - Custom for you on Google Classroom.
- 4-7: 1, 3 & 9-15 (odds only)