

## **Math Virtual Learning**

# Algebra 2A Polynomial Synthetic Division

April 23, 2020



#### **Lesson:** Evaluating Polynomials

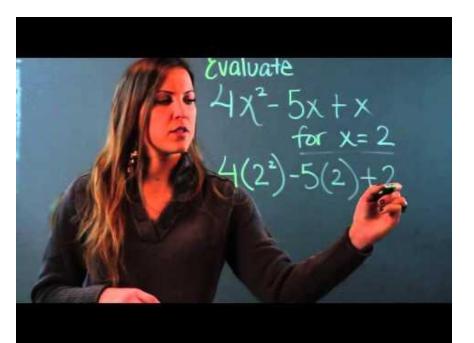
#### Learning Target: LT D3 I can evaluate polynomial functions.

#### **Objective:**

Students will be able to evaluate polynomials. Students will be able to apply the remainder theorem.



#### You will need to watch the following videos:

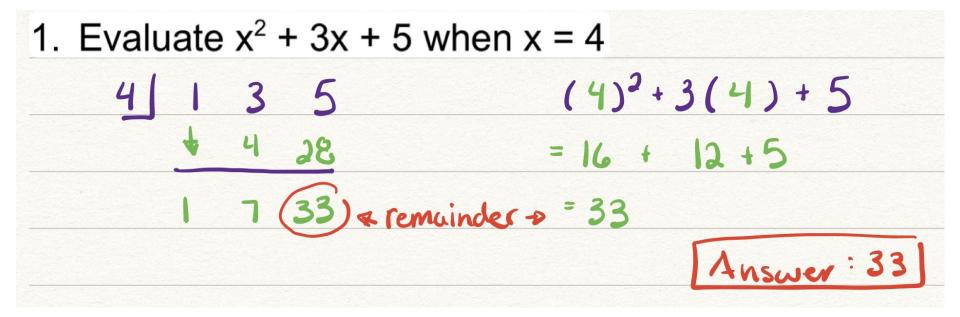


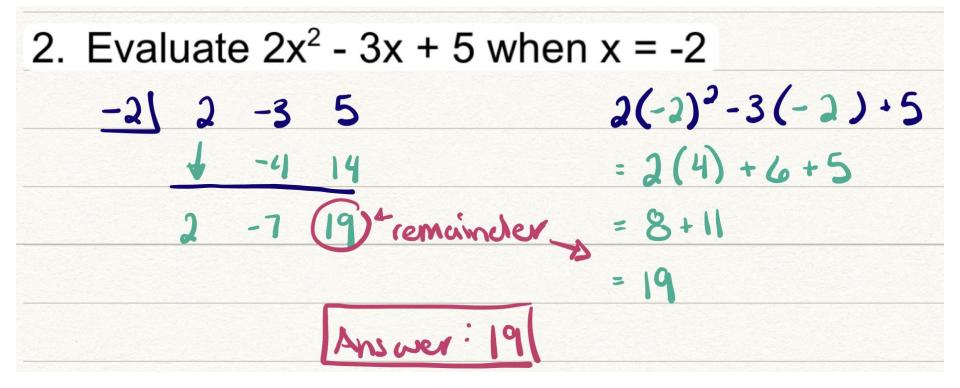
Evaluating Polynomials

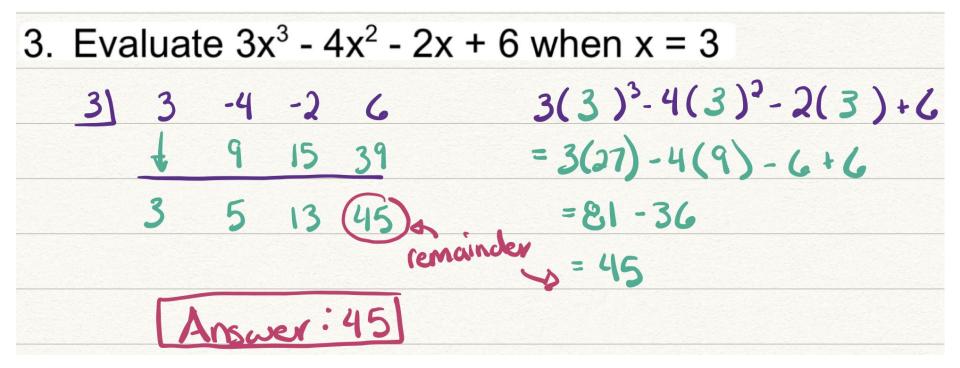
#### Practice

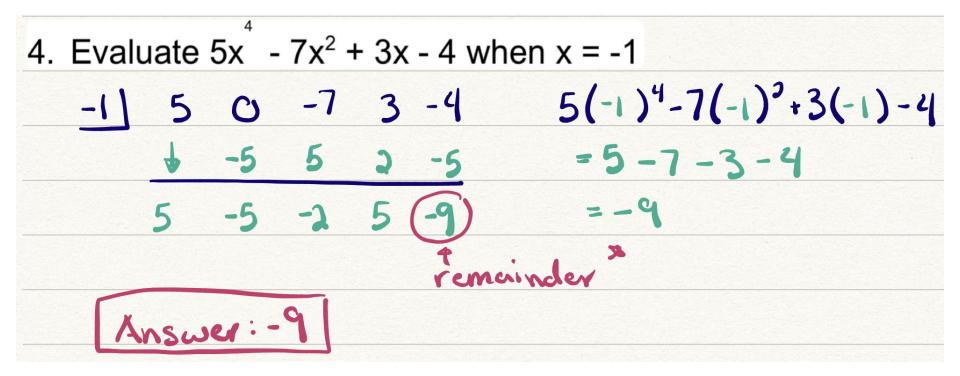
- 1. Evaluate  $x^2 + 3x + 5$  when x = 4
- 2. Evaluate  $2x^2 3x + 5$  when x = -2
- 3. Evaluate  $3x^3 4x^2 2x + 6$  when x = 3

4. Evaluate 
$$5x^4 - 7x^2 + 3x - 4$$
 when x = -1









### Answers to Practice Problems

- 1. 33
- 2. 19
- 3. 45
- 4. -9

Additional Resources

**Evaluating Polynomial Expressions** 

Remainder Theorem and Synthetic Division of Polynomials

**Additional Practice** 

**Evaluating Polynomials**