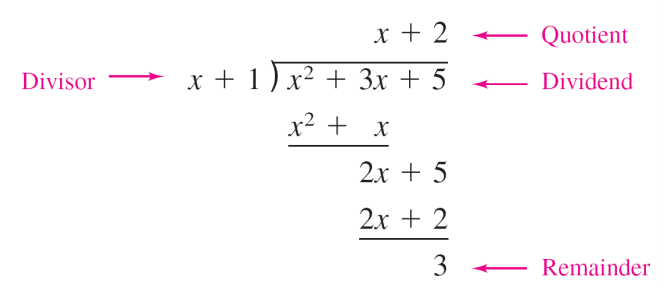
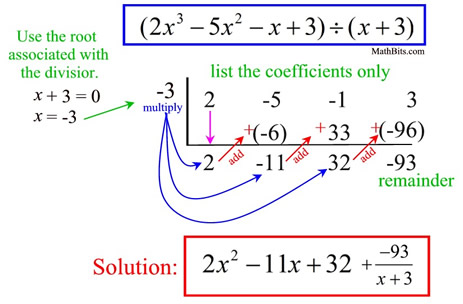
Algebra II Notes/Classwork Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Introduction to Synthetic Division of Polynomials Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Warm-up:** Solve using long division.

**Synthetic Division of Polynomials: Examples**

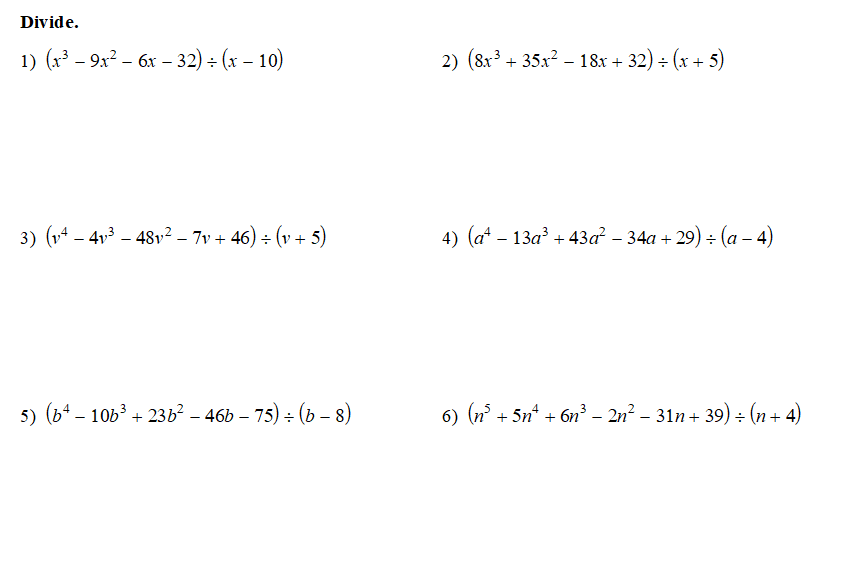


Example 1:

Example 2:

Synthetic division ONLY works if:

**Classwork/Homework:** Complete the following problems before our next class.



Check your work: your remainders should be 8, -3, 6, 5, 5, 3, -8.

<https://www.khanacademy.org/math/algebra2/arithmetic-with-polynomials/synthetic-division-of-polynomials/v/synthetic-division>

<https://mathbitsnotebook.com/Algebra2/Polynomials/POPolySynDivide.html>