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Tutorial Request Form (TRF)
Pre-Work Inquiry (Before the Tutorial)

Subject: Precalc
Unit/Essential Question: Complex Numbers

Name: [redacted]
AVID Period: 3
Date: 10.19.15

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Pre-work Inquiry	Resources	Collaborative Inquiry	Note-Taking	Reflection	Total
/12	/1	2/2	3/3	/7	/25

Initial/ Original Question: Perform the operation and write the result in standard form. $\frac{2}{1+i} - \frac{3}{1-i}$

Source, page # & problem #: 55

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Key academic vocabulary/definition or formulas associated with question:

1. $i = \sqrt{-1}$
2. Standard form: $a + bi$ (real numbers are written before imaginary)

/2

Background Knowledge About Topic/Question

1. multiply by conjugate
2. must be the same number under the $\sqrt{}$ in order to +/-

/2

Critical Thinking & Brainstorming

in order to get same number under square root I multiplied by the conjugate by both sides to solve and then simplified my answer and wrote it with real number before imaginary OR standard form.

/3

General Process and Steps:

$$\frac{(1-i)}{(1-i)}\frac{2}{1+i} - \frac{3}{1-i}\left(\frac{1+i}{1+i}\right)$$

$$\frac{2-2i}{1-(-1)} - \frac{3+3i}{1-(-1)}$$

$$\boxed{\frac{-1-5i}{2}}$$

/2

SPECIFIC Question from Point of Confusion:

How do I solve +/- problems that don't have the same denominators?

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