# **Precalculus**Complex addition/subtraction

**Todor Miley** 

2019

Let 
$$u = 2 + 3i$$
,  $v = 5 - 7i$ .

$$u + v =$$

## Example (Subtraction)

$$u - v =$$

$$u \cdot v =$$

Let 
$$u = 2 + 3i$$
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$$u + v = (2 + 3i) + (5 - 7i) =$$
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## Example (Subtraction)

$$u - v = (2 + 3i) - (5 - 7i) =$$
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$$u \cdot v =$$

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## Example (Subtraction)

$$u - v = (2+3i) - (5-7i) = (2-5) + (3-(-7))i = -3 + 10i.$$

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=  $10 - 14i + 15i - 21i^2$ 

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$$= 31 + i$$