



Complex Numbers

(10 problems)

$$\overline{2 + 3i} = ?$$

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PROBLEM:

Calculate:

$$\overline{2 + 3i}$$

PROBLEM:

Calculate:

$$\overline{-7i}$$

PROBLEM:

Calculate:

$$|2 + 3i|$$

SOLUTION:

$$|2 + 3i|$$

$$= \sqrt{2^2 + 3^2}$$

$$= \sqrt{4 + 9}$$

$$= \sqrt{13}$$

PROBLEM:

Calculate:

$$|-7i|$$

PROBLEM:

Calculate:

$$(2 + 3i) + (1 + 4i)$$

PROBLEM:

Calculate:

$$(2 + 3i) + (-1 + 4i)$$

SOLUTION:

$$(2 + 3i) + (-1 + 4i)$$

$$= 2 + 3i - 1 + 4i$$

$$= 2 - 1 + 3i + 4i$$

$$= 1 + 7i$$

PROBLEM:

Calculate:

$$(2 + 3i) - (1 + 4i)$$

PROBLEM:

Calculate:

$$(2 + 3i) - (-1 + 4i)$$

PROBLEM:

Calculate:

$$(2 + 3i) \cdot (1 + 4i)$$

PROBLEM:

Calculate:

$$(2 + 3i) \cdot (-1 + 4i)$$

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