
1.

2.

3.

4. Simplify the expression below into the form $a + bi$. Then, choose the intervals that a and b belong to.

$$\frac{-45 - 11i}{-4 - 6i}$$

- A. $a \in [1.5, 3.5]$ and $b \in [4.5, 6.5]$
B. $a \in [245, 247]$ and $b \in [-4.5, -4]$
C. $a \in [3.5, 5]$ and $b \in [-4.5, -4]$
D. $a \in [10, 11.5]$ and $b \in [1, 3]$
E. $a \in [3.5, 5]$ and $b \in [-226.5, -225.5]$
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5. Simplify the expression below into the form $a + bi$. Then, choose the intervals that a and b belong to.

$$(10 - 6i)(3 + 4i)$$

- A. $a \in [-1, 7]$ and $b \in [-61.2, -57.5]$
B. $a \in [30, 32]$ and $b \in [-24.2, -22.6]$
C. $a \in [52, 59]$ and $b \in [-23.2, -20.1]$
D. $a \in [-1, 7]$ and $b \in [55.7, 60.7]$
E. $a \in [52, 59]$ and $b \in [19.1, 22.2]$
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