

1.

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

$$\frac{-27 - 77i}{-2 - 4i}$$

- A. $a \in [-13.5, -12]$ and $b \in [12.5, 13.5]$
 - B. $a \in [17, 19]$ and $b \in [1.5, 2.5]$
 - C. $a \in [17, 19]$ and $b \in [45.5, 46.5]$
 - D. $a \in [361, 362.5]$ and $b \in [1.5, 2.5]$
 - E. $a \in [12, 14]$ and $b \in [18.5, 20]$
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3. Simplify the expression below into the form $a + bi$. Then, choose the intervals that a and b belong to.

$$(-5 + 7i)(4 - 6i)$$

- A. $a \in [-63, -61]$ and $b \in [-3, -1]$
 - B. $a \in [-24, -17]$ and $b \in [-46, -37]$
 - C. $a \in [-63, -61]$ and $b \in [2, 4]$
 - D. $a \in [17, 24]$ and $b \in [55, 59]$
 - E. $a \in [17, 24]$ and $b \in [-61, -57]$
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