test copies Version B

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

$$(6+5i)(-4+10i)$$

- A. $a \in [22, 27]$ and $b \in [72, 87]$
- B. $a \in [-79, -71]$ and $b \in [36, 43]$
- C. $a \in [-79, -71]$ and $b \in [-44, -37]$
- D. $a \in [-26, -23]$ and $b \in [48, 55]$
- E. $a \in [22, 27]$ and $b \in [-81, -76]$
- 2. Simplify the expression below into the form a + bi. Then, choose the intervals that a and b belong to.

$$\frac{63 - 55i}{2 + 4i}$$

- A. $a \in [-5, -3.5]$ and $b \in [-18.5, -17.5]$
- B. $a \in [31, 32]$ and $b \in [-14.5, -13.5]$
- C. $a \in [-5, -3.5]$ and $b \in [-363.5, -361.5]$
- D. $a \in [16.5, 19]$ and $b \in [6.5, 7.5]$
- E. $a \in [-95, -93.5]$ and $b \in [-18.5, -17.5]$
- 3. Simplify the expression below into the form a + bi. Then, choose the intervals that a and b belong to.

$$\frac{-63+33i}{4-5i}$$

- A. $a \in [-418.5, -416.5]$ and $b \in [-4.5, -2.5]$
- B. $a \in [-3, -0.5]$ and $b \in [10, 12.5]$
- C. $a \in [-10.5, -9.5]$ and $b \in [-4.5, -2.5]$
- D. $a \in [-10.5, -9.5]$ and $b \in [-184, -181.5]$

5370-9939 test

test copies Version B

E.
$$a \in [-16, -15.5]$$
 and $b \in [-8, -6]$

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

$$(-3-2i)(-4+9i)$$

A.
$$a \in [28, 39]$$
 and $b \in [-20.3, -18.6]$

B.
$$a \in [-7, -4]$$
 and $b \in [-38.2, -34.6]$

C.
$$a \in [28, 39]$$
 and $b \in [16, 20.5]$

D.
$$a \in [4, 15]$$
 and $b \in [-18.1, -15.7]$

E.
$$a \in [-7, -4]$$
 and $b \in [32.5, 35.6]$

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