test copies Version A

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

$$(-5+8i)(-2+7i)$$

- A. $a \in [58, 68]$ and $b \in [19, 21]$
- B. $a \in [-49, -43]$ and $b \in [-58, -48]$
- C. $a \in [58, 68]$ and $b \in [-23, -18]$
- D. $a \in [-49, -43]$ and $b \in [46, 55]$
- E. $a \in [9, 11]$ and $b \in [55, 58]$
- 2. Simplify the expression below into the form a + bi. Then, choose the intervals that a and b belong to.

$$\frac{-72 + 33i}{5 + 4i}$$

- A. $a \in [-228.5, -227]$ and $b \in [10, 12.5]$
- B. $a \in [-12.5, -10.5]$ and $b \in [-3.5, -2.5]$
- C. $a \in [-6, -5]$ and $b \in [452.5, 453.5]$
- D. $a \in [-15.5, -13]$ and $b \in [8, 9.5]$
- E. $a \in [-6, -5]$ and $b \in [10, 12.5]$
- 3. Simplify the expression below into the form a + bi. Then, choose the intervals that a and b belong to.

$$\frac{18 - 88i}{-3 - i}$$

- A. $a \in [3, 4]$ and $b \in [27.5, 29.5]$
- B. $a \in [3, 4]$ and $b \in [281.5, 282.5]$
- C. $a \in [-6.5, -4.5]$ and $b \in [86.5, 88.5]$
- D. $a \in [-15.5, -14]$ and $b \in [24, 25]$

5370-9939 test

test copies Version A

E.
$$a \in [33.5, 35.5]$$
 and $b \in [27.5, 29.5]$

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

$$(-10+9i)(5-6i)$$

A.
$$a \in [-55, -47]$$
 and $b \in [-61, -52]$

B.
$$a \in [-107, -102]$$
 and $b \in [-16, -14]$

C.
$$a \in [0, 7]$$
 and $b \in [-108, -102]$

D.
$$a \in [-107, -102]$$
 and $b \in [13, 18]$

E.
$$a \in [0, 7]$$
 and $b \in [102, 112]$

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