

complex number arithmetic

Simplify:

- $(1 - 3i) + (-6 + i)$
- $(-6 + 7i) - (8 - 8i)$
- $(7 + 2i) - (-1 + 3i)$
- $(3 + 6i) + (-9 - 7i)$
- $(-9 - 8i) + (5 + 5i)$
- $(5 - 7i) - (4 - 6i)$
- $(-5 + 2i) - (3 - 6i)$

Multiply:

- $(2 - 3i)(-2 - 9i)$ [A] $-31 - 12i$ [B] $23 - 24i$ [C] $23 - 12i$ [D] $-31 - 24i$
- $(-5 + 4i)(3 + i)$ [A] $-11 + 7i$ [B] $-19 + 7i$ [C] $-11 - 17i$ [D] $-19 - 17i$
- $(-4 - 7i)(-2 + 3i)$ [A] $29 - 26i$ [B] $-13 + 2i$ [C] $29 + 2i$ [D] $-13 - 26i$
- $(-6 - i)(-1 + 5i)$ [A] $11 - 29i$ [B] $11 - 31i$ [C] $1 - 29i$ [D] $1 - 31i$
- $(2 - 5i)(7 + 6i)$ [A] $44 - 23i$ [B] $-16 + 47i$ [C] $44 + 47i$ [D] $-16 - 23i$
- $(-8 + 3i)(-8 + 5i)$ [A] $79 - 16i$ [B] $49 - 16i$ [C] $79 - 64i$ [D] $49 - 64i$
- $(2 + 9i)(-5 - 9i)$ [A] $-91 + 27i$ [B] $-91 - 63i$ [C] $71 + 27i$ [D] $71 - 63i$
- $(-7 + 4i)(2 - 3i)$ [A] $-2 + 29i$ [B] $-26 + 29i$ [C] $-26 + 13i$ [D] $-2 + 13i$
- Perform the indicated operations and give the answer in standard complex number form:
 $-6i(-3i - 7) + 9(4 + 6i)$
- Perform the indicated operations and give the answer in standard complex number form:
 $2i(-3i - 5) - 4(-1 + i)$