

Complex Numbers Worksheets

Simplify.

1. $(3 + 4i) + (7 - 20i)$

2. $(3 + 4i) - (7 - 20i)$

3. $(13 + 4i) + (7 + 5i)$

4. $(5 - i) - 2(1 - 3i)$

5. $(2 + 5i) + (4 + 3i)$

6. $(-1 + 2i) - (4 - 3i)$

7. $(4 + i) + (2 - i) - (1 - i)$

8. $(1 + i) - (1 - i)$

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Simplify.

1. $(3 + 4i) + (7 - 20i)$

$$\begin{aligned}(3 + 4i) + (7 - 20i) \\ &= 3 + 4i + 7 - 20i \\ &= (3 + 7) + (4 - 20)i \\ &= 10 - 16i\end{aligned}$$

2. $(3 + 4i) - (7 - 20i)$

$$\begin{aligned}(3 + 4i) - (7 - 20i) \\ &= 3 + 4i - 7 + 20i \\ &= (3 - 7) + (4 + 20)i \\ &= -4 + 20i\end{aligned}$$

3. $(13 + 4i) + (7 + 5i)$

$$\begin{aligned}(13 + 7) + (4 + 5)i \\ &= 20 + 9i\end{aligned}$$

4. $(5 - i) - 2(1 - 3i)$

$$\begin{aligned}5 - i - 2 + 6i \\ &= 3 + 5i\end{aligned}$$

5. $(2 + 5i) + (4 + 3i)$

$$\begin{aligned}(2 + 5i) + (4 + 3i) \\ &= (2 + 4) + (5 + 3)i \\ &= 6 + 8i\end{aligned}$$

6. $(-1 + 2i) - (4 - 3i)$

$$\begin{aligned}(-1 + 2i) - (4 - 3i) \\ &= -1 + 2i - 4 + 3i \\ &= -5 + 5i\end{aligned}$$

7. $(4 + i) + (2 - i) - (1 - i)$

$$\begin{aligned}(4 + i) + (2 - i) - (1 - i) \\ &= 4 + i + 2 - i - 1 + i \\ &= 5 + i\end{aligned}$$

8. $(1 + i) - (1 - i)$

$$\begin{aligned}(1 + i) - (1 - i) \\ &= 0 + 2i = 2i\end{aligned}$$