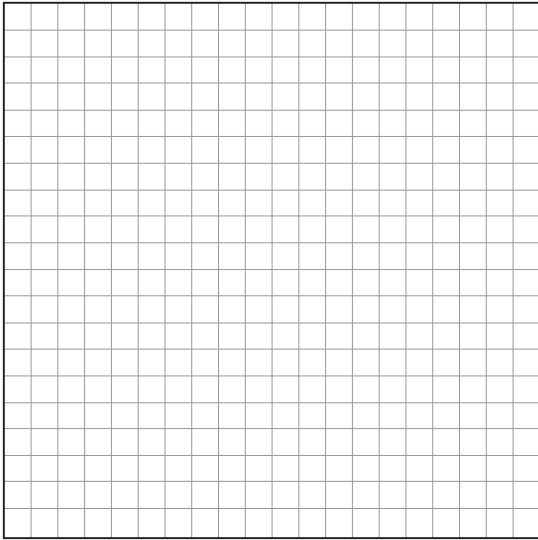
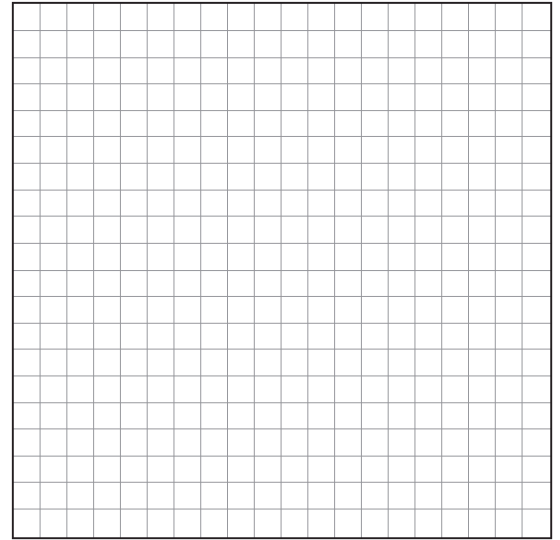


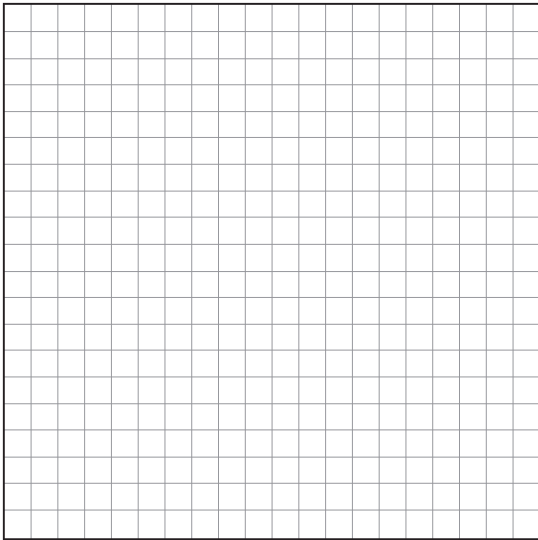
1. Add graphically: $(2 + 3i) + (4 - i)$.



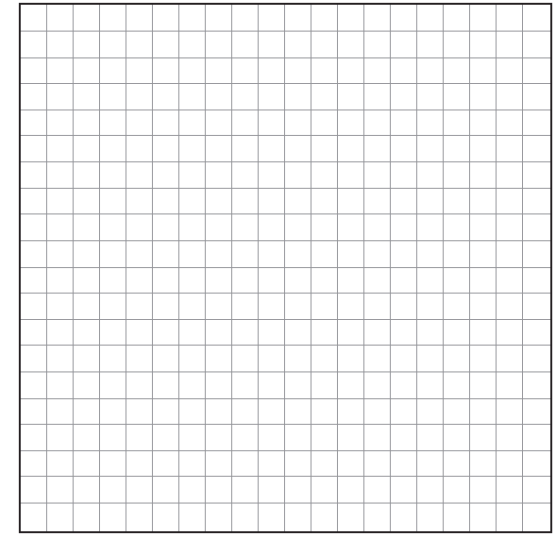
2. Subtract graphically: $(-4 - i) - (2 + 5i)$



3. Add graphically: $(-5 + 4i) + (2 - 7i)$.



4. Subtract graphically: $(4 - 5i) - (-3 + i)$



5. If $-4 + 2i - (a + 4i) = 9 + bi$, what is the value of a ?

(1) -2

(3) -13

(2) 2

(4) 13

6. For which equation does the sum of the roots equal 3 and the product of the roots equal 4.5?

(1) $x^2 + 3x - 9 = 0$

(3) $2x^2 + 6x + 9 = 0$

(2) $x^2 - 3x - 9 = 0$

(4) $2x^2 - 6x + 9 = 0$

7. For the solution set $\left\{\frac{2}{5} \pm \frac{\sqrt{3}}{5}\right\}$, write a quadratic equation with integer coefficients.

8. When the sum of $4 + 6i$ and $6 - 8i$ is graphed, in which quadrant does it lie?

(1) I

(3) III

(2) II

(4) IV

