Name_____block_____

Factor

1) $x^2 - 11x + 28$

2) $x^2 + 9x + 14$

3) $2x^2 + 5x + 3$

4) $6x^2 - 13x + 2$

5) $9x^2 - 12x + 4$

6) $4x^2 + 4x + 1$

7) $9x^2 - 1$

8) $16x^2 - 25$

Add or Subtract

9) $(3 + 2i) + (-5 + 8i)$

10) $(4 + 2i) - (-1 + 5i)$

Multiply or Divide

11) $(5 - 4i)(3 + 6i)$

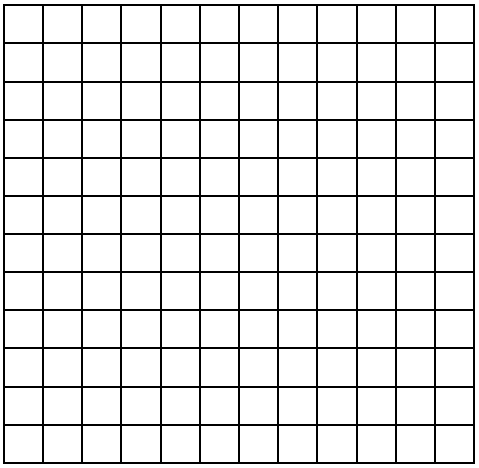
12) $(4 + 8i)(4 - 8i)$

13) $\frac{6}{2 + 3i}$

14) $\frac{3 - i}{2 + i}$

Graph

15) $2 - 3i$



16) $-3 + 4i$

Solve the quadratic by completing the square.

17) $x^2 + 4x - 7 = 0$

18) $x^2 - 6x + 11 = 0$

19) $2x^2 + 6x - 12 = 0$

20) $4x^2 - 4x + 13 = 0$

Use the quadratic formula to solve the quadratic.

21) $x^2 + 5x - 3 = 0$

22) $2x^2 + 3x + 2 = 0$

Use the discriminant to determine how many solutions and whether they are real or imaginary.

23) $x^2 - 3x + 5 = 0$

24) $3x^2 + x - 2 = 0$

25) $4x^2 - 12x + 9 = 0$