

Add or subtract the following complex no.s. Remember to treat the “i” like any other variable.

1)  $(4 - 3i) + (6 - 8i)$

2)  $(11 - 7i) - (-5 + 2i)$

3)  $(10 + 4i\sqrt{2}) - (12 - i\sqrt{2})$

Multiply the imaginary or complex numbers.

4)  $(2i)(3i)(4i)$

5)  $-5i^2(6i^3)$

6)  $i^{10} \cdot i^{20}$

7)  $(3i^3)^3$

8)  $(6 + 3i)(2 + 5i)$

9)  $(1 - 2i)(4 + 7i)$

10)  $(3 - 2i)^2$

Solve each equation.

11)  $3x^2 + 48 = 0$

12)  $x^2 - 125 = 0$

13)  $3y^2 = -24$

14)  $y^2 - 1 = 21$

15)  $10n^2 + 40 = 0$

16)  $2x^2 + 40 = 0$