

Square Roots, Complex Numbers, & Quadratic
Formula Review

- Simplify: $\sqrt{64}$
 - 8
 - 8
 - $\sqrt{8}$
 - $-\sqrt{8}$
- Simplify: $2\sqrt{44}$
 - $2\sqrt{11}$
 - $4\sqrt{11}$
 - $8\sqrt{11}$
 - $11\sqrt{2}$
- Simplify: $\sqrt{5} + 6\sqrt{5}$
 - $7\sqrt{5}$
 - $6\sqrt{5}$
 - $7\sqrt{10}$
 - $5\sqrt{6}$
- Simplify: $\sqrt{32x^3}$
 - $x\sqrt{32x}$
 - $4x\sqrt{2x}$
 - $\sqrt{2x}$
 - $4x\sqrt{8x}$
- Simplify: $\sqrt{2}(1 + \sqrt{3})$
 - $\sqrt{2} + \sqrt{6}$
 - $\sqrt{2} + 2\sqrt{3}$
 - $2 + \sqrt{5}$
 - $\sqrt{15}$
- Simplify: $4\sqrt{12} - \sqrt{27}$
 - $4\sqrt{-30}$
 - $3\sqrt{6}$
 - $5\sqrt{3}$
 - $9\sqrt{6}$
- Simplify: $\sqrt{-42}$
 - $6i\sqrt{7}$
 - $9i\sqrt{2}$
 - $3\sqrt{2}$
 - $i\sqrt{42}$
- Simplify: $(1 - \sqrt{3})(1 + \sqrt{3})$
 - 2
 - $-1 + \sqrt{3}$
 - $-1 - 2\sqrt{3}$
 - $1 - \sqrt{6}$
- Simplify: $7i - 9i$
 - 2
 - 2
 - $-2i$
 - $2i$
- Simplify: $(5 + 3i) + (-3 - 6i)$
 - $2 - 3i$
 - 8
 - $-2 - 18i$
 - $-1 + 3i$
- Simplify: $(2 + 3i)(-3 - 6i)$
 - 12
 - 24
 - $12 - 21i$
 - $-24 - 21i$
- What is an equivalent form of i^{63} ?
 - i
 - 1
 - $-i$
 - 1
- What does $\sqrt{-4}$ equal?
 - $2i$
 - 2
 - $i\sqrt{4}$
 - $2\sqrt{-1}$

14. What is the real number in the expression: $5 + 2i$

- a. 2
- b. $2i$
- c. 5
- d. i

15. Solve the equation: $n^2 = 2n - 10$

17. Solve the equation: $3x^2 - 11 = 8x$

16. Solve the equation: $2n^2 - 6n - 6 = 2$

18. Solve the equation: $x^2 - 6x + 7 = 0$