

Section 6.7 and 6.8 Quiz Review

Date _____ Period _____

Solve each equation by taking square roots.

1) $n^2 = -16$

2) $x^2 = -7$

3) $n^2 - 8 = -12$

4) $-10x^2 = 300$

5) $2a^2 - 3 = -19$

6) $\sqrt{-64}$

7) $\sqrt{-28}$

8) $4i \cdot 3i$

9) $-2i \cdot 5i$

10) $(3i)^2$

11) $\sqrt{-8} \cdot \sqrt{-3}$

$$12) \frac{2}{\sqrt{-7}}$$

$$13) \frac{3}{4\sqrt{-5}}$$

Simplify.

$$14) (7 + 7i) + (-5 + 3i)$$

$$15) (-2 - 2i) - (8 - 4i)$$

$$16) (6 - i) - (-8 + 5i)$$

$$17) (-7 - 8i)(6 + 5i)$$

$$18) (-4 - 8i)(2 - i)$$

$$19) (6 + 8i)^2$$

$$20) \frac{10 + 8i}{-5i}$$

$$21) \frac{8 - i}{3i}$$

$$22) \frac{-5 + 10i}{-10 + 3i}$$