

Name KEY  
Algebra 2 - Chapter 5 Test Review

Part 2:

1. Simplify  $\sqrt{20x^4}$

$$2\sqrt{5}$$

$$2x^2\sqrt{5}$$

2. Simplify.  $\sqrt{81p^6q^8}$

$$9p^3q^4$$

3. Simplify completely  $\sqrt[3]{64x^5y^{12}}$  ?

$$4x\sqrt[3]{y^4}$$

$$\begin{array}{c} 64 \\ \swarrow \searrow \\ 8 \quad 8 \\ \swarrow \searrow \quad \swarrow \searrow \\ 4 \quad 2 \quad 4 \quad 2 \\ \swarrow \searrow \quad \swarrow \searrow \\ 2 \quad 2 \quad 2 \quad 2 \end{array}$$

4. Simplify completely.  $4(5 - 3\sqrt{7})$

$$20 - 12\sqrt{7}$$

5. Write  $\sqrt[5]{x^4}$  using rational exponents.

$$x^{4/5}$$

6. Write in simplest radical form.  $(x)^{4/6}$

$$\sqrt[3]{x^4}$$

7. Simplify completely.  $5\sqrt{3} + 4\sqrt{5} - 3\sqrt{3}$

$$2\sqrt{3} + 4\sqrt{5}$$

8. Simplify completely.  $-5\sqrt{6} * 3\sqrt{5}$

$$-15\sqrt{30}$$