Algebra 2 - Chapter 5 Test Review

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

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

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

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

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

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

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

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

9. Simplify completely. $\dfrac{\sqrt{81}}{\sqrt{9}}$

10. Simplify completely. $\dfrac{3\sqrt{25}}{2\sqrt{5}}$

11. Simplify completely. $\sqrt[3]{9x^2} \cdot \sqrt[3]{3x}$

12. Solve. $\sqrt{2x-1} = 5$

13. Solve. $\sqrt{3x-5} - 2 = 6$

14. Simplify completely. $\sqrt{12} + 2\sqrt{3} - 4\sqrt{12}$

15. $\sqrt{x+2} = \sqrt{2x-1}$

16. Identify the Index and Radicand of the following. $\sqrt[5]{95}$

17. Simplify $2\sqrt{2} * 3\sqrt{2}$

18. $\sqrt{2x+2} = 4$