

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Algebra I

Directions: Simplify the radicals.

1.  $2\sqrt{b^5}$

2.  $4\sqrt{x^3y^3}$

3.  $\sqrt{49a}$

4.  $\sqrt{36r^2s}$

5.  $5\sqrt{4x^3y^3}$

6.  $\sqrt{20x^2y^5}$

7.  $5\sqrt{18y^3u^6z^8}$

8.  $\sqrt{a^{16}}$

9.  $\sqrt{b^{19}}$

10.  $\sqrt[3]{8}$

11.  $\sqrt[5]{32}$

12.  $\sqrt[5]{243}$

13.  $\sqrt[4]{256}$

14.  $\sqrt[3]{216}$

15.  $\sqrt{4x^2}$

16.  $\sqrt{a^6b^5}$

17.  $\sqrt{32}$

18.  $\sqrt{100c^2}$

$$19. \sqrt{x^2y^3z^4}$$

$$20. \sqrt{18x^5}$$

$$21. \sqrt{360x^6y^3}$$

$$22. \sqrt{50a^2b^4c^3d^5}$$

$$23. 5\sqrt{15x^3y^{10}}$$

$$24. 12\sqrt{12}$$

$$25. 6\sqrt{8f^4gh^3}$$