

SECONDARY MATH III
HW 1-1A RADICAL REVIEW

NAME _____

PERIOD _____

Simplify. Assume all variables are greater than or equal to zero.

1. $\sqrt{24}$

2. $\sqrt[3]{1000}$

3. $\sqrt[3]{-162}$

4. $\sqrt{20}$

5. $\sqrt[4]{81n^8}$

6. $\sqrt{98k}$

7. $\sqrt[5]{64r^7}$

8. $\sqrt[3]{24m^3}$

9. $\sqrt[5]{-32x^6y^{10}z}$

10. $\sqrt[3]{64m^7n}$

Change the exponential form to radical form.

11. $x^{\frac{1}{2}} =$ _____

12. $y^{\frac{2}{5}} =$ _____

13. $a^{-\frac{5}{3}} =$ _____

Change the radical form to exponential form.

14. $\sqrt[4]{t} =$ _____

15. $(\sqrt[3]{b})^7 =$ _____

16. $\sqrt[2]{r^5} =$ _____

Evaluate without a calculator. Write in radical form, then simplify.

17. $9^{\frac{1}{2}}$

18. $16^{\frac{3}{4}}$

19. $8^{-\frac{1}{3}}$

Review

Simplify.

20. $(2x^3)(4xy)$

21. $\left(\frac{14a^2}{b}\right)^0$