

SECONDARY MATH III  
HW 8-1 RADICAL REVIEW

NAME Selected Answers  
PERIOD A34 B3



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

1.  $\sqrt{24}$

$2\sqrt{6}$

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

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

$-3\sqrt[3]{6}$

4.  $\sqrt{20}$

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

6.  $\sqrt{98k}$

$7\sqrt{2k}$

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

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

$2m\sqrt[3]{3}$

9.  $\sqrt{392x^2}$

$14x\sqrt{2}$

10.  $\sqrt{512x^2}$

Evaluate without a calculator.

11.  $\sqrt{28}$

12.  $\sqrt[3]{-27}$

13.  $\sqrt[5]{64}$

$2\sqrt[5]{2}$

14.  $\sqrt[4]{243v^6}$

15.  $\sqrt[3]{5^3}$

5

Simplify.

16.  $\sqrt{8x^4}$

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

$2m^2\sqrt[3]{2mn}$

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

19.  $\sqrt[6]{64a^8}$

$2a\sqrt[6]{a^2}$

