

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

Score : \_\_\_\_\_

Teacher : \_\_\_\_\_

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

## Simplifying Radical Expressions

Simplify each expression. Use absolute value signs if necessary.

1)  $\sqrt[5]{486}$

6)  $\sqrt[5]{32x^3y^5}$

2)  $\sqrt[3]{40x^3}$

7)  $\sqrt{2016}$

3)  $\sqrt[3]{27}$

8)  $\sqrt{2744x^6y^4}$

4)  $\sqrt[5]{224}$

9)  $\sqrt[3]{216}$

5)  $\sqrt[4]{567x^7y^4}$

10)  $\sqrt[3]{8x^6}$



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## Simplifying Radical Expressions

Simplify each expression. Use absolute value signs if necessary.

1)  $\sqrt[5]{486}$

$3\sqrt[5]{2}$

2)  $\sqrt[3]{40x^3}$

$2x\sqrt[3]{5}$

3)  $\sqrt[3]{27}$

3

4)  $\sqrt[5]{224}$

$2\sqrt[5]{7}$

5)  $\sqrt[4]{567x^7y^4}$

$3|x||y|\sqrt[4]{7x^3}$

6)  $\sqrt[5]{32x^3y^5}$

$2y\sqrt[5]{x^3}$

7)  $\sqrt{2016}$

$12\sqrt{14}$

8)  $\sqrt{2744x^6y^4}$

$14|x^3|y^2\sqrt{14}$

9)  $\sqrt[3]{216}$

6

10)  $\sqrt[3]{8x^6}$

$2x^2$

