Date: 2/16/15 Time: 6:51 PM

Course: MATH110 A009 Win 15

Book: Tobey: Beginning and Intermediate

Algebra, 4e

1. Explain why the cube root of a negative number is a negative number.

Choose the correct answer below.

- OA. The cube root of a negative number is undefined.
- OB. The cube root of any number is a negative number.
- OC. A negative number cubed is always equal to a negative number, so the cube root of a negative number will also always be negative.
- OD. The cube root of a negative number is equal to both the positive and negative of the solution.
- 2. Find the square root.

√64

Select the correct choice below and, if necessary, fill in the answer box within your choice.

- OA. $\sqrt{64} = 100$
- OB. The square root is not a real number.
- 3. Evaluate if possible.

$$\sqrt{121} + \sqrt{9}$$

Select the correct choice below and fill in any answer boxes in your choice.

OA. $\sqrt{121} + \sqrt{9} =$

(Simplify your answer. Type an integer or decimal rounded to the nearest hundredth as needed.)

- OB. The square root is not a real number.
- Evaluate if possible.

$$-\sqrt{\frac{1}{4}}$$

Select the correct choice below and, if necessary, fill in any answer box to complete your choice.

- OB. The square root is not a real number.

5. Evaluate if possible.

 $\sqrt{-25}$

Select the correct choice below and fill in any answer boxes in your choice.

- OA. The answer is . (Simplify your answer. Type an integer or a fraction.)
- OB. The square root is not a real number.
- 6. For the given function, find the indicated function values. Find the domain of the function.

$$f(x) = \sqrt{3x+12}$$
, find $f(0)$, $f(2)$, $f(5)$, $f(-3)$.

- f(0) = (Round to one decimal place as needed.)
- f(2) = (Round to one decimal place as needed.)
- f(5) = (Round to one decimal place as needed.)
- $f(-3) = \bigcap$ (Round to one decimal place as needed.)

The domain of f(x) is all real numbers x where \Box . (Type an inequality in terms of x.)

7. Find the root.

³√729

Select the correct choice below and, if necessary, fill in the answer box within your choice.

- OA. The cube root is a real number. $\sqrt[3]{729} =$
- OB. The cube root is not a real number.

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8.	Find	the	root	that	is a	real	number.
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$$\sqrt[3]{-216}$$

Select the correct choice below and, if necessary, fill in the answer box within your choice.

- OA. The cube root is .
- OB. The cube root is not a real number.

Select the correct choice below and, if necessary, fill in any answer box to complete your choice.

- OA. The root is not a real number.
- OB. The answer is

10. Rewrite with a rational exponent.

$$\sqrt[8]{z}$$

$$\sqrt[8]{z} =$$

(Simplify your answer.)

11. Assume the variable represents a positive real number. Replace the radical with a rational exponent.

$$\sqrt[7]{a^3}$$

 $\sqrt[7]{a^3}$ expressed with a rational exponent is \square .

12. Simplify. Assume that all variables represent positive numbers.

$$\sqrt[3]{a^6b^{18}}$$

The answer is .

(Simplify your answer.)

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Algebra, 4e

13. Simplify. Assume that the variables represent positive real numbers.

$$\sqrt{25x^{30}y^{22}}$$

The answer is .

14. Write the expression in radical form. Assume that the variable represents a positive real number.

$$c^{4/3} =$$

(Do not simplify.)

15. Write the expression in radical form and then evaluate.

$$16^{3/2}$$

$$16^{3/2} =$$
 (Simplify your answer.)

16. Simplify.

$$(16x^{10})^{-1/2}$$

$$(16x^{10})^{-1/2} =$$

(Simplify your answer. Use integers or fractions for any numbers in the expression. Use positive exponents only.)

17. Simplify. Assume that the variables represent any positive or negative real number.

$$\sqrt[4]{a^{24}b^8}$$

$$\sqrt[4]{a^{24}h^8} =$$

(Simplify your answer. Use integers or fractions for any numbers in the expression. Use positive exponents only.)

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18. Simplify. Assume that the variables represent any real number.

$$\sqrt{100x^{28}y^4}$$

$$\sqrt{100x^{28}y^4} =$$

(Simplify your answer. Use integers or fractions for any numbers in the expression. Use positive exponents only.)

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Algebra, 4e

1.	Write	in	simplest	exponent	form.

$$(-7)(a)(b)(c)(b)(c)(a)(a)$$

The expression written in simplest exponent form is . (Do not factor.)

2. Multiply and simplify.

$$h^4 \cdot h^5$$

$$h^4 \cdot h^5 =$$

(Simplify your answer. Type exponential notation with positive exponents.)

3. Use the product rule to simplify.

$$(-3x^9)(2x^3)$$

$$(-3x^9)(2x^3) =$$

(Simplify your answer. Type exponential notation with positive exponents.)

4. Multiply.

$$(2x^2)(9x)$$

$$(2x^2)(9x) =$$

5. Multiply.

$$(6wz^5)(3w^5z^2)$$

$$(6wz^5)(3w^5z^2) =$$

(Simplify your answer. Type your answer using exponential notation.)

6. Multiply.

$$(9w)(5w^4z)(0)$$

$$(9w)(5w^4z)(0) =$$

(Simplify your answer. Type your answer using exponential notation.)

7. Divide. Assume that the variable in the denominator is nonzero.

$$\frac{y^{14}}{y^7}$$

 $\frac{y^{14}}{y^7} =$ (Simplify your answer. Type your answer using exponential notation.)

8. Divide. Assume that all variables in any denominator are nonzero.

 $\frac{b^4}{b^7}$

 $\frac{b^4}{b^7} = \square$ (Simplify your answer. Type exponential notation with positive exponents.)

9. Divide. Assume that all variables in the denominator are nonzero.

 $\frac{y^{12}}{2y^4}$

 $\frac{y^{12}}{2y^4} = \square$ (Simplify your answer. Type your answer using exponential notation.)

10. Divide. Assume that all variables in the denominator are nonzero.

$$\frac{16a^7b}{-32a^4b^5}$$

$$\frac{16a^7b}{-32a^4b^5} =$$

(Simplify your answer. Use integers or fractions for any numbers in the expression. Type exponential notation with positive exponents.)

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11. Simplify.

 $(x^7)^8$

 $(x^7)^8 =$ (Simplify your answer.)

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Simplify. 12.

$$(3a^5b^4c)^3$$

 $(3a^5b^4c)^3 = \square$ (Simplify your answer.)

13. Simplify.

$$(-5s^3)^2$$

 $(-5s^3)^2 =$ (Simplify your answer.)

14. Simplify.

$$\left(\frac{3x}{7y^3}\right)^2$$

$$\left(\frac{3x}{7y^3}\right)^2 = \square$$

Simplify. 15.

$$(-3x^3y^0z^2)^4$$

 $(-3x^3y^0z^2)^4 = \Box$ (Type exponential notation with positive exponents.)

16. Simplify. Assume that variable b is nonzero.

$$b^{-3}$$
 $b^{-3} =$ (Use positive exponents only. Simplify your answer.)

Simplify. Assume that variable b is nonzero. 17.

$$\frac{1}{b^{-6}}$$

$$\frac{1}{h^{-6}} =$$
 (Use positive exponents only. Simplify your answer.)

$$\frac{x^{-5}y^{-8}}{z^{-9}}$$

$$\frac{x^{-5}y^{-8}}{z^{-9}} =$$

19. Simplify. Assume that variable a is nonzero.

$$z^7a^{-8}$$

 $z^7a^{-8} =$ (Use positive exponents only. Simplify your answer.)

20. Simplify. Assume that variable x is nonzero.

$$5x^{-7}$$

 $5x^{-7} =$ (Use positive exponents only. Simplify your answer.)

21. Simplify. Express the answer with positive exponents.

$$\left(\frac{5xy^{-3}}{z^3}\right)^{\frac{1}{2}}$$

$$\left(\frac{5xy^{-3}}{z^3}\right)^3 = \boxed{}$$

(Simplify your answer. Use integers or fractions for any numbers in the expression. Use positive exponents only.)

22. Evaluate $(8)^{2/3}$.

$$(8)^{2/3} = \square$$
 (Type an integer.)

23. Evaluate $(8)^{2/3}$.

(8)
$$^{2/3} = \square$$
 (Type an integer.)

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Simplify the given expression. 24.

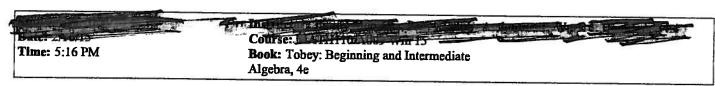
$$100^{-1/2}$$

$$100^{-1/2} = \Box$$
 (Type an integer or a fraction.)

Simplify the following expression and express the answer with positive exponents. Evaluate or simplify 25. the numerical expressions.

$$(25)^{-3/2}$$

(25)
$$^{-3/2} = \Box$$
 (Type an integer or a simplified fraction.)

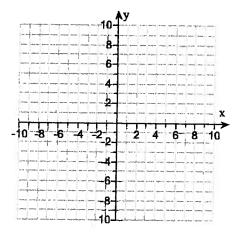


4.4.5. Graph the solution of the following system.

$$y \ge 5x - 1$$
$$x + y \le 2$$

Use the graphing tool to graph the system.







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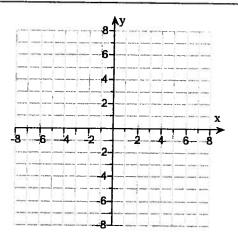
4.4.7. Graph the solution of the following system.

$$y \ge -2x$$

$$y \ge 3x + 1$$

Use the graphing tool to graph the system.

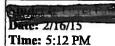






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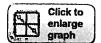
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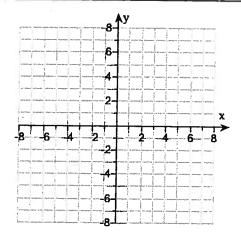
4.4.11. Graph the solution of the following system.

$$x-y \ge -6$$

$$-2x-y \le 3$$

Use the graphing tool to graph the system.







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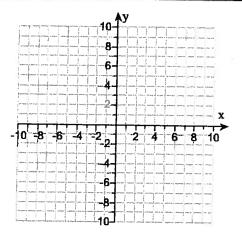
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4.4.13. Graph the solution of the following system.

$$x + 4y < 20$$
$$y < 5$$

Use the graphing tool to graph the system.

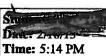






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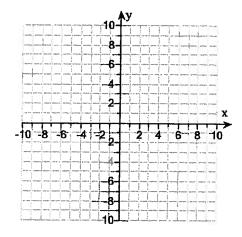
4.4.15. Graph the solution of the following system.

$$y < 2$$

 $x > -1$

Use the graphing tool to graph the system.







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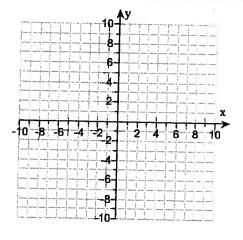
4.4.19. Graph the solution of the following system.

$$5x + 6y < 30$$

 $5x + 6y > -30$

Use the graphing tool to graph the system.







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