Quiz4.1ReviewDay

Monday, February 8, 2016 10:01 AM

Quiz4.1ReviewDay

Algebra I
Unit 4
02/08/16

Quiz 4.1 Review Day

Learning and Social Objective(s)

1. Students will be able to complete the review sheet with complete accuracy.
2. Students will be able to meet the student expectations.

Agenda [49 minutes]

1. Update Assignment Log #2 [5 min]
2. Agenda/Objectives [3 min]
3. Quiz 4.1 Review Sheet [25 min]
4. Study Time [10 min]

Apple word

- None

Homework (Due 02/09-10/16)

Quiz 4.1 Review Sheet

Lesson Notes

If the review sheet finishes early, have students work on problems that I write on the front whiteboard for them to practice. Give the expectation that students who are not studying or doing math will lose their points for the day.

Quiz4.1ReviewSheet

Monday, February 8, 2016 10:02 AM

Quiz4.1ReviewSheet

Name: Class Period:

Quiz 4.1 Review Sheet

Problem 1

Simplify the following expression as much as possible.

$$\frac{(2z^0y^2)^2}{y} - (3x^2y^1)^3x^{-6}$$

Problem 2

Simplify the following expression as much as possible.

$$\left(\sqrt[3]{64y^4}\right)(3y)^{2/3} + \frac{\sqrt[4]{16x^4}}{x}$$

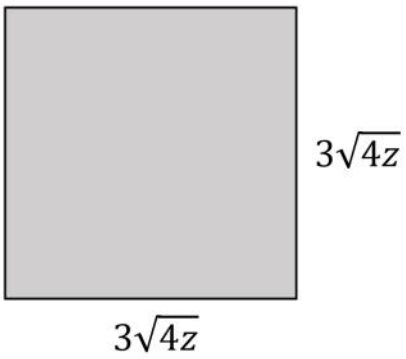
Problem 3

Simplify the following expression as much as possible.

$$\frac{(2x^3y^{-1})^4}{(3y)^{-2}} - (56x^{12}y^{-2}z^5)^0$$

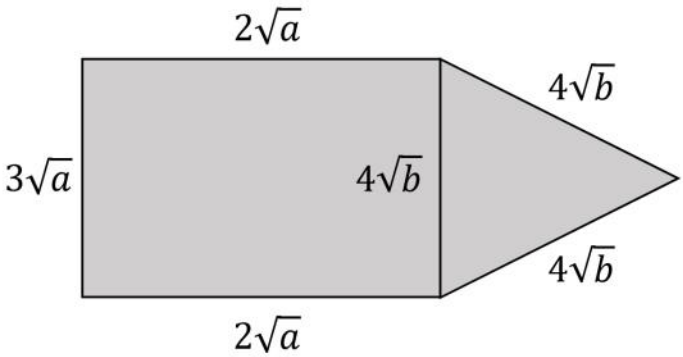
Problem 4

Find the area of the square in square centimeters.



Problem 5

Find the perimeter of the shape below in feet.



Quiz4.1ReviewSheetKey

Monday, February 8, 2016 11:09 AM

Quiz4.1ReviewSheetKey

Name: Key Class Period:

Quiz 4.1 Review Sheet

Problem 1

Simplify the following expression as much as possible.

$$\frac{(2z^0y^2)^2}{y} - (3x^2y^1)^3x^{-6}$$

$= \frac{4y^4}{y} - \frac{27x^6y^3}{x^6}$

$= 4y^3 - 27y^3 = -23y^3$

Problem 2

Simplify the following expression as much as possible.

$$\left(\sqrt[3]{64y^4}\right)(3y)^{2/3} + \frac{\sqrt[4]{16x^4}}{x}$$

8 8 → 4 2 4 2 → 2 2 2 2

4 4 → 2 2 2 2

$= 4y\sqrt[3]{y}\sqrt[3]{9y^2} + \frac{2x}{x} = 4y\sqrt[3]{9y^3} + 2$

$= 4y^2\sqrt[3]{9} + 2$

Problem 3

Simplify the following expression as much as possible.

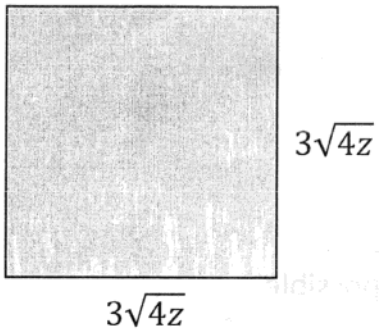
$$\frac{(2x^3y^{-1})^4}{(3y)^{-2}} - (56x^{12}y^{-2}z^5)^0$$

$$= \frac{16x^{12}y^{-4}}{3^{-2}y^{-2}} - 1 = \frac{16(9)x^{12}y^2}{y^4} = \frac{144x^{12}}{y^2}$$

$$\begin{array}{r} 16 \\ \times\ 9 \\ \hline 144 \end{array}$$

Problem 4

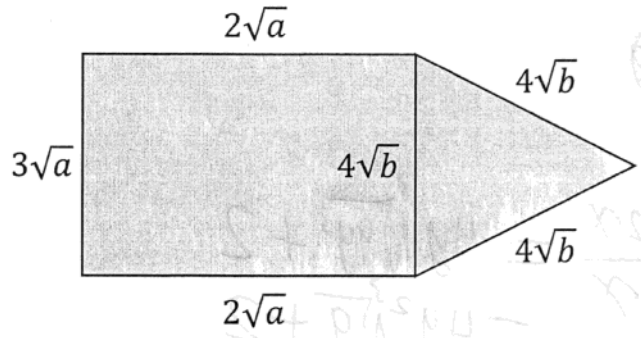
Find the area of the square in square centimeters.



$$\left(3\sqrt{4z}\right)^2 = 9 \cdot 4z = 36z \text{ cm}^2$$

Problem 5

Find the perimeter of the shape below in feet.



$$3\sqrt{a} + 2\sqrt{a} + 4\sqrt{b} + 4\sqrt{b} + 2\sqrt{a}$$

$$= 7\sqrt{a} + 8\sqrt{b} \text{ ft}$$