Today's Learning Goal(s):

Date: _____

By the end of the class, I will be able to:

a) simplify algebraic expressions containing rational exponents and radicals.

Last day's work: **READ p.228**

pp. 229-230 #(1 – 6)ace, 8 – 11, 12ace, 14 [16]

4.4 Simplifying Algebraic Expressions Involving Exponents

Date: _____

Ex.1 Simplify. Express answers in rational form with positive exponents.

a) $\dfrac{\left(3x^{-2}y^{2}\right)^{2}}{\left(x^{3}y^{-2}\right)^{3}}$

Recall:

b) $\dfrac{\left(64a^{-6}b^{12}\right)^{\frac{1}{3}}}{\left(16a^{-4}b^{6}\right)^{\frac{1}{2}}}$

c) $\dfrac{b^{-4}}{a^{-2}}$

d) $\dfrac{\sqrt[6]{x^{8}}}{\sqrt[3]{x^{5}}}$

Ex.2 Simplify and evaluate for x = -3 and n = -2.

$$\frac{\left(x^{3n+1}\right)\left(x^{5n-3}\right)}{\left(x^{6n-3}\right)}$$

Extra, if time.

$$\left(\frac{\left(x^{18}\right)^{-\frac{1}{6}}}{\sqrt[5]{243x^{10}}} \right)^{0.5}$$

Are there any Homework Questions you would like to see on the board?

Last day's work: **READ p.228**

pp. 229-230 #(1 – 6)ace, 8 – 11, 12ace, 14 [16]

The mid-chapter review is good practice for tomorrow's quiz!

QUIZ Tomorrow

Today's Homework Practice includes:

pp. 235-237 #(1 – 2)ace, 3, (4 – 9)ace [14]

Review p. 239