

Property of Exponents Review #4 (page 1)

Name Key

Reminders: $a^m \cdot a^n = a^{m+n}$ Like bases, add EXPONENTS per _____

$(a^m)^n = a^{mn}$ multiply Exponents

problem # and work

You TRY!

Did you get the problem # correct or incorrect?

If you got the answer incorrect, LISTEN, WATCH, WRITE DOWN the steps on the video!

What step #'s do you NOT understand?

1.) $(3x^6)(-4x^5)$

Correct or Incorrect?

See video for steps and explanation

Answer:

$-12x^{11}$

2.) $x^3 \cdot x^5 \cdot x$

C or I?

Answer:

x^9

3.) $(-2x^3)(4xy^7)(-5x^3y^2)$

cor I?

Answer:

$40x^6y^9$

4.) $(x^5)^6$

C or I?

Answer:

x^{30}

Property of Exponents Review #5

page 2

Name Key
per _____

Reminders:

problem # and Work

You TRY!

Did you get the problem # correct or incorrect?

If you got the answer incorrect, LISTEN, WATCH, WRITE DOWN the steps on the video!

What step #'s do you NOT understand?

5.) $(x^4 y^3)^9$

C or I?

See video for Steps and Explanation

Answer:
 $x^{36} y^{27}$

6.) $(2xy^5)^3$

C or I?

Answer:
 $8x^3 y^{15}$

7.) $(-3x^5 y^4)^2$

C or I?

Answer:
 $9x^{10} y^8$

8.) $(-2xy^6)^3$

C or I?

Answer:
 $-8x^3 y^{18}$

Property of Exponents Review #6

page 3

Name Key

Reminders: $a^{-m} = \frac{1}{a^m}$
 $\frac{1}{a^{-m}} = a^m$

- Negative exponents on per Top move to the Bottom and become POSITIVE
- Negative exponents on the Bottom move to the Top and become POSITIVE

problem # and Work

You TRY!

Did you get the problem # correct or incorrect?

If you got the answer incorrect, LISTEN, WATCH, WRITE DOWN the steps on the video!

What step #'s do you NOT understand?

9.) $(-3x^5y^3)(6xy^6)^2$

C or I?

Answer:

~~W~~ $-108x^7y^{15}$

See video for Steps and Explanation!

10.) $(4x^6y)^2(5x^{10})$

C or I?

Answer:

$80y^2/x^2$

~~11.) $(-7x^5y)(-2x^3y^5)^{-3}$~~

~~C or I?~~

~~Answer:~~

~~$\frac{56}{x^4y^{14}}$~~

Get Rid of it!

Property of Exponents Review # 7 page 4

Name Key

per _____

Reminders:

problem # and Work

You TRY!

Did you get the problem # correct or incorrect?

If you got the answer incorrect, LISTEN, WATCH, WRITE DOWN the steps on the video!

What step #'s do you NOT understand?

$$12.) (-4x^5y^2)^2 \cdot (5xy)^2$$

C or I?

Answer:

$$\cancel{800x^{10}y^4} \quad \boxed{400x^{10}y^6}$$

See video for steps and Explanation!

$$13.) \frac{(-3xy^6)^2 \cdot (-2x^6y^5)^2}{8z^{-3}}$$

C or I?

Answer:

$$\boxed{\frac{9x^{14}y^{23}z^3}{2}}$$

$$14.) (2 \times 10^3)^6$$

C or I?

$$\text{Answer: } 6.4 \times 10^{19}$$

$$15.) (2.5 \times 10^6) \times (2.16 \times 10^8)^3$$

C or I?

$$\text{Answer: } 2.52 \times 10^{31}$$