A1.1 Algebra Homework

1. (1 pts)

Match the definition to the correct rule of exponents.

- A. ____ repeated multiplcation
- B. ____ add the exponents
- A. ____ subtract the exponents
- B. ____ multiply the exponents

2. (1 pts)

Simplify each multiplication problem.

$$x^3x^6 =$$

$$4y^3 \cdot 2y^2 =$$

$$4y^{3} \cdot 2y^{2} =$$
 $-4y^{3} \cdot 2y^{2} =$
 $-4y^{3} \cdot -2y^{2} =$

Simplify and write the answer with positive exponents only.

$$\frac{5x^{12}}{x^3} =$$

$$\frac{12y^{10}}{3y^3} =$$

$$\frac{8z^3}{z^3} =$$

4. (1 pts)

Simplify each problem.

$$(x^3)^6 =$$

$$(2y^4)^4 =$$

5. (1 pts)

Simplify completely. Write the answer with positive exponents.

$$(4x^5y^4)(5x^5y^2)_=$$

6. (1 pts)

Simplify completely. Write the answer with positive exponents.

$$(-2x^2y^6)(3x^5y^3)_=$$

7. (1 pts)

Simplify and write the answer with positive exponents only.

$$\frac{(10x^3)(4x^5)}{5x^3} =$$

8. (1 pts)

Simplify and write the answer with positive exponents only.

$$\frac{(3x^3)^3}{3x^2} =$$

9. (1 pts)

Simplify and write the answer with positive exponents only.

$$\frac{(15x^6y^2)(6x^5y^4)}{5x^2y^2} =$$

10. (1 pts)

Simplify and write the answer with positive exponents only.

++++++++++++

A1.1 Algebra Homework

1. (1 pts)

Match the definition to the correct rule of exponents.

- A. ____ repeated multiplcation
- B. add the exponents
- A. ____ subtract the exponents
- B. ____ multiply the exponents

2. (1 pts)

Simplify each multiplication problem.

Simplify and write the answer with positive exponents only.

$$(5x^{(12)})/x^{(3)} =$$

$$(8z^{(3)})/z^{(3)} =$$

4. (1 pts)

Simplify each problem.

$$(x^{(3)})^{(6)} =$$

5. (1 pts)

Simplify completely. Write the answer with positive exponents.

$$(4x^{(5)}y^{(4)})(5x^{(5)}y^{(2)}) =$$

6. (1 pts)

Simplify completely. Write the answer with positive exponents.

$$(-2x^{(2)}y^{(6)})(3x^{(5)}y^{(3)}) =$$

7. (1 pts)

Simplify and write the answer with positive exponents only.

$$((10x^3)(4x^5))/(5x^(3)) =$$

8. (1 pts)

Simplify and write the answer with positive exponents only.

$$((3x^3)^(3))/(3x^(2)) =$$

9. (1 pts)

Simplify and write the answer with positive exponents only.

$$((15x^6y^2)(6x^5y^4))/(5x^(2)y^2) =$$

10. (1 pts)

Simplify and write the answer with positive exponents only.

$$((3x^5y^3)^(2))/(3x^(3)y^2) =$$