A1.2 Algebra Homework

1. (1 pts)

Match the definition to the correct rule of exponents.

A. _____ one
B. _____ repeated multiplcation
C. _____ repeated division

A. _____ add the exponents
B. _____ subtract the exponents
C. _____ multiply the exponents

2. (1 pts)

Simplify each multiplication problem and write the answer using positive exponents

$x^4 x^0 =$ _____

$2y^{-9} \cdot 2y^3 =$ _____
$-2y^{-9} \cdot 2y^3 =$ _____
$-2y^{-9} \cdot -2y^3 =$ _____

3. (1 pts)

Simplify and write the answer with positive exponents only.

$\frac{30x^{-6}}{2} =$ _____

$\frac{2y^3}{30y^6} =$ _____

$\frac{8z^2}{z^2} =$ _____

4. (1 pts)

Simplify each problem.

$(x^4)^{-7} =$ _____

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

$6(z^3)^{-2} =$ _____

5. (1 pts)
Simplify completely. Write the answer with positive exponents.

$(3x^2y^5)(4x^5y^{-4}) =$ _____

6. (1 pts)
Simplify completely. Write the answer with positive exponents.

$(4x^{-5}y^7)(4x^2y^{-4}) =$ _____

7. (1 pts)
Simplify and write the answer with positive exponents only.

$\frac{(10x^{-2})(6x^{14})}{5x^4} =$ _____

8. (1 pts)
Simplify and write the answer with positive exponents only.

$\frac{(6x^4)^{-2}}{10x^2} =$ _____

9. (1 pts)
Simplify and write the answer with positive exponents only.

$\frac{(3x^{-5}y^4)^2}{3x^2y^2} =$ _____

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A. _____ add the exponents
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2. (1 pts)
Simplify each multiplication problem and write the answer using positive exponents

`x^(4)x^(0)` = _____

`2y^-9*2y^3` = _____
`-2y^-9*2y^3` = _____
`-2y^-9*-2y^3` = _____

3. (1 pts)
Simplify and write the answer with positive exponents only.

`(30x^(-6))/2` = _____

`(2y^(3))/(30y^(6))` = _____

`(8z^(2))/z^(2)` = _____

4. (1 pts)
Simplify each problem.

`(x^(4))^(-7)` = _____

`(6y^3)^-2` = _____

`6(z^3)^-2` = _____

5. (1 pts)
Simplify completely. Write the answer with positive exponents.

`(3x^(2)y^(5))(4x^(5)y^(-4))` = _____

6. (1 pts)
Simplify completely. Write the answer with positive exponents.

`(4x^(-5)y^(7))(4x^(2)y^(-4))` = _____

7. (1 pts)
Simplify and write the answer with positive exponents only.

`((10x^-2)(6x^14))/(5x^(4))` = _____

8. (1 pts)
Simplify and write the answer with positive exponents only.

`((6x^4)^(-2))/(10x^(2))` = _____

9. (1 pts)
Simplify and write the answer with positive exponents only.

`((3x^-5y^4)^(2))/(3x^(2)y^2)` = _____
