Everyone needs a white board, marker, and eraser

Warm up-

Simplify the following

1. $r^{-5}t^{7}r^{6}t^{-1} =$ R^{1+6}

2. $\frac{5^3}{5^8} =$ $\frac{1}{5^5}$

3. $w^3x^5w^2 =$ $w^5 x^5$

4. $\frac{3x^2y^3z \cdot 2xz^2}{3xy^2} =$ $\frac{2x^3z^3y^1}{1}$

5. $\frac{a^2b^3a^4}{a^3b} =$ $a^2 b^3$

6. $\frac{4x^5}{6x^3} =$ $\frac{2x^2}{3}$

Exponent Properties-

Remember: Zero as an Exponent!

For every nonzero number a, $a^0 = 1$

Ex: 1. $5^0 = 1$ 2. $300^0 = 1$ 3. $(1.02)^0 = 1$

Exponent Properties-

Negative Exponent

For every nonzero number a and integer n, $a^{-n} = 1/a^n$

Ex: 1. $6^{-4} = \frac{1}{6^4}$ 2. $(-8)^{-1} = \frac{1}{(-8)^1}$

Simplify

1. $(-7)^0$

2. $-3^{-2} = \frac{1}{-3^2}$

3. $3^{-4} = \frac{1}{3^4}$

Simplify

1. $4xy^{-3} = \frac{4x}{y^3}$

2. $7s^{-4}t^{0} = \frac{7}{s^4}$

3. $\frac{n^{-5}}{v^2} = \frac{1}{n^5v^2}$

Simplify

1. $\frac{3x^{-2}y^{0}}{2y} =$ $\frac{3}{2x^2y}$

2. $\frac{5}{x^3y^{-2}} =$ $\frac{5y^2}{x^3}$

3. $\frac{3^{-2}m^3n^{-5}}{v^2w^{-3}} =$ $\frac{m^3w^3}{3^2n^5v^2}$

Classwork!

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Pg 433 #2, 3, 7, 9, 17-31 odd