

LOE Day 7 Homework

Date _____ Period _____

Simplify. Your answer should contain only positive exponents.

1) $4y^2 \cdot 4x^3y^{-2}$

2) $3x^4y^{-2} \cdot x^0y^{-4}$

3) $2m^2 \cdot 3m^{-2}n^{-4} \cdot nm^{-1}$

4) $4yx^2 \cdot 3x^0y^3$

5) $(yx^{-1})^2$

6) $(2yx^4)^4$

7) $(3x^{-4}y^{-2})^3$

8) $(3mn^{-1})^{-2}$

9) $\frac{4x^3}{4xy^{-2}}$

10) $\frac{n^2}{2m^4n^{-3}}$

11) $\frac{4x}{3xy^4}$

12) $\frac{3x^{-1}y^{-3}}{2xy^4}$

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Simplify. Your answer should contain only positive exponents.

1) $4y^2 \cdot 4x^3y^{-2}$

$$16x^3$$

2) $3x^4y^{-2} \cdot x^0y^{-4}$

$$\frac{3x^4}{y^6}$$

3) $2m^2 \cdot 3m^{-2}n^{-4} \cdot nm^{-1}$

$$\frac{6}{mn^3}$$

4) $4yx^2 \cdot 3x^0y^3$

$$12y^4x^2$$

5) $(yx^{-1})^2$

$$\frac{y^2}{x^2}$$

6) $(2yx^4)^4$

$$16y^4x^{16}$$

7) $(3x^{-4}y^{-2})^3$

$$\frac{27}{x^{12}y^6}$$

8) $(3mn^{-1})^{-2}$

$$\frac{n^2}{9m^2}$$

9) $\frac{4x^3}{4xy^{-2}}$

$$y^2x^2$$

10) $\frac{n^2}{2m^4n^{-3}}$

$$\frac{n^5}{2m^4}$$

11) $\frac{4x}{3xy^4}$

$$\frac{4}{3y^4}$$

12) $\frac{3x^{-1}y^{-3}}{2xy^4}$

$$\frac{3}{2x^2y^7}$$