

Assignment

Date _____ Period _____

Simplify. Your answer should contain only positive exponents.

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

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

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

4) $4a^{-2}b^3 \cdot 3a^4$

5) $(-2n \cdot -m^2n^{-4})^2$

6) $(2m^2n^2)^2 \cdot m^0$

7) $2x^{-1}y^{-3} \cdot (-x^0y^5)^0$

8) $(x^3y^{-1} \cdot -2x^5y^{-4})^2$

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

10) $\left(\frac{2vu^2}{u^0v^4 \cdot 2u^4v^0}\right)^{-3}$

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Simplify. Your answer should contain only positive exponents.

1) $3m^{-2} \cdot 3m^{-2} \frac{9}{m^4}$

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

3) $3y^3 \cdot 3x^0 y^2$
 $9y^5$

4) $4a^{-2} b^3 \cdot 3a^4$
 $12b^3 a^2$

5) $(-2n \cdot -m^2 n^{-4})^2 \frac{4m^4}{n^6}$

6) $(2m^2 n^2)^2 \cdot m^0$
 $4m^4 n^4$

7) $2x^{-1} y^{-3} \cdot (-x^0 y^5)^0 \frac{2}{xy^3}$

8) $(x^3 y^{-1} \cdot -2x^5 y^{-4})^2 \frac{4x^{16}}{y^{10}}$

9) $\frac{(2x^{-1} y^{-4})^2}{x^3 y^{-4} \cdot -2y^2} - \frac{2}{x^5 y^6}$

10) $\left(\frac{2vu^2}{u^0 v^4 \cdot 2u^4 v^0}\right)^{-3}$
 $v^9 u^6$