

Tri 2 Review 8.EE.1

Date _____ Period _____

Simplify. Your answer should contain only positive exponents.

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

2) $4x^2y^4 \cdot 4x^{-6}y^{-1}$

3) $3x^{-3}y^5 \cdot 2x^5y^2 \cdot 6x^2y^2$

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

5) $(x^3y^5)^6$

6) $(2x^{-3})^4$

7) $(3a^4b^6)^{-4}$

8) $(3x^2y^{-2})^3$

9) $\frac{6a^3b^{-4}}{3a^{-1}b^2}$

10) $\frac{2m^2n^{-4}}{5m^5n^4}$

11) $\frac{3u^{-4}v^5}{u^{-6}v^5}$

12) $\frac{3yx^2}{4x^2y^{-6}}$

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Simplify. Your answer should contain only positive exponents.

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

$$10y$$

2) $4x^2y^4 \cdot 4x^{-6}y^{-1}$

$$\frac{16y^3}{x^4}$$

3) $3x^{-3}y^5 \cdot 2x^5y^2 \cdot 6x^2y^2$

$$36y^9x^4$$

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

$$\frac{15x}{y}$$

5) $(x^3y^5)^6$

$$x^{18}y^{30}$$

6) $(2x^{-3})^4$

$$\frac{16}{x^{12}}$$

7) $(3a^4b^6)^{-4}$

$$\frac{1}{81a^{16}b^{24}}$$

8) $(3x^2y^{-2})^3$

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

9) $\frac{6a^3b^{-4}}{3a^{-1}b^2}$

$$\frac{2a^4}{b^6}$$

10) $\frac{2m^2n^{-4}}{5m^5n^4}$

$$\frac{2}{5n^8m^3}$$

11) $\frac{3u^{-4}v^5}{u^{-6}v^5}$

$$3u^2$$

12) $\frac{3yx^2}{4x^2y^{-6}}$

$$\frac{3y^7}{4}$$