

The Product Property

Date _____ Period _____

Simplify. Your answer should contain only positive exponents.

1) $3x^4 \cdot -4x$

2) $-3m \cdot -4m^3 \cdot -m^4$

3) $x^4 \cdot x$

4) $-x^3 \cdot 4x^4 \cdot -2x^3$

5) $2b^3 \cdot -b^4$

6) $-4a^2 \cdot 4a^4 \cdot a^4$

7) $-3m^4 \cdot -4m^2$

8) $-2x^3 \cdot -3x^2$

9) $-3n^2 \cdot -3n^3$

10) $-a^2 \cdot -2a^4$

11) $x^3y^4 \cdot x^4 \cdot 4x^4$

12) $x^3 \cdot 2x^4y^4$

13) $yx^2 \cdot x^2y^2$

14) $2a^3b^4 \cdot b$

15) $2mn^3 \cdot m^2n^3$

16) $m \cdot 2m$

The Product Property

Date _____ Period _____

Simplify. Your answer should contain only positive exponents.

$$1) 3x^4 \cdot -4x$$

$$-12x^5$$

$$2) -3m \cdot -4m^3 \cdot -m^4$$

$$-12m^8$$

$$3) x^4 \cdot x$$

$$x^5$$

$$4) -x^3 \cdot 4x^4 \cdot -2x^3$$

$$8x^{10}$$

$$5) 2b^3 \cdot -b^4$$

$$-2b^7$$

$$6) -4a^2 \cdot 4a^4 \cdot a^4$$

$$-16a^{10}$$

$$7) -3m^4 \cdot -4m^2$$

$$12m^6$$

$$8) -2x^3 \cdot -3x^2$$

$$6x^5$$

$$9) -3n^2 \cdot -3n^3$$

$$9n^5$$

$$10) -a^2 \cdot -2a^4$$

$$2a^6$$

$$11) x^3y^4 \cdot x^4 \cdot 4x^4$$

$$4x^{11}y^4$$

$$12) x^3 \cdot 2x^4y^4$$

$$2x^7y^4$$

$$13) yx^2 \cdot x^2y^2$$

$$y^3x^4$$

$$14) 2a^3b^4 \cdot b$$

$$2a^3b^5$$

$$15) 2mn^3 \cdot m^2n^3$$

$$2m^3n^6$$

$$16) m \cdot 2m$$

$$2m^2$$