WS 7.1A Exponent Rules-Product Rules

Date Period

Simplify using the Product of like bases rule. Your answer should contain only positive exponents.

1) $a^3 \cdot 3a^5$

2) $4nn^2 \cdot 5n^2$

3) $5n^3 \cdot n^5 \cdot 6n$

4) $4n^4 \cdot 2n$

5) $6n^3 \cdot 3n^5$

Simplify using the Power to a Power rule. Your answer should contain only positive exponents.

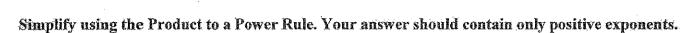
6) $(3^4)^4$

7) $(3^2)^3$

8) $(2^3)^3$

9) $(2^4)^2$

10) $(4^3)^3$



11)
$$(2x^2)^5$$

12)
$$(4m^5n^3)^4$$

13)
$$(3yx^5)^2$$

14)
$$(6x^5y^6)^3$$

15) $(6y^2)^5$