

Algebra 1 B

Name _____

Unit 8 Objectives 1 to 3 Practice

Period _____ Date _____

Multiplying the same bases – Add the powers

1. $3^4 \cdot 3^6$

2. $y^4 \cdot y^3$

3. $2x^3 \cdot x$

4. $-3a^5(-3a^2)$

5. $(5b^3)(-2b^6)$

6. $m^3n \cdot m^2n^5$

7. $(-3ab)(7ab)$

8. $\left(-\frac{1}{2}x^5y\right)(-8x^3z^2)$

9. $3h^6(-h^5)$

Simplifying a product to a power – Take every factor to the power

10. $(7x)^2$

11. $(-abc)^2$

12. $(-2w)^5$

13. $(-pq)^4$

14. $(-xy)^3(2x^3y)$

15. $(2bc)^5(3b)^2$

Simplifying an exponent raised to another exponent – Multiply the powers

16. $(x^2)^4$

17. $(2^3)^2$

18. $(-3y^4)^3$

19. $(-9mn^5)^2$

20. $(-a^6b)^8(3a^2b)$

21. $(-n^7)^4(-n^2)^3$