

8.4 Worksheet
Algebra 1

Name _____

Simplify each expression.

1. $(4a^5)^6$

2. $(x^5)^2$

3. $(4x^4)^3(2xy^3)^2$

4. $(x^5y^3)^3(xy^5)^2$

5. $(a^4)^{-5} \cdot a^{13}$

6. $x^3 \cdot (x^3)^5$

7. $(a^3b^4)^{-2}(a^{-3}b^{-5})^{-4}$

8. $(12b^{-2})^2$

9. $(x^{-4})^5(x^3y^2)^5$

10. $n^6 \cdot (n^{-2})^5$

11. $(a^3)^6$

12. $(4^{-1}s^3)^{-2}$

13. $(b^{-3})^6$

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

15. $d^3 \cdot (d^2)^5$