

8.3 Worksheet
Algebra 1

Name _____

Simplify each expression.

1. $(-8m^4)(4m^8)$

2. $a^3 \cdot a$

3. $(3p^{-15})(6p^{11})$

4. $(-1.5a^5b^2)(6a)$

5. $\frac{1}{b^{-7}b^5}$

6. $\frac{1}{n^7n^{-5}}$

7. $b^7 \cdot b^{13}$

8. $r^7 \cdot s^4 \cdot s \cdot r^3$

9. $(7p^4)(5p^9)$

10. $(6r^4s^3)(9rs^2)$

$$11. m^{12} \cdot m^{-14}$$

$$12. (-3xy^6)(3.2x^5y)$$

$$13. \frac{1}{h^7 h^3}$$

$$14. f^5 \cdot f^2 \cdot f^0$$

$$15. 5^{-6} \cdot 5^4$$

$$16. 2^8 \cdot 2^{-9} \cdot 2^3$$

$$17. (8d^4)(4d^7)$$

$$18. 5^{-7} \cdot 5^9$$

$$19. (3d^{-4})(5d^8)$$

$$20. p^7 q^5 p^6$$