

7-1 Multiplication Properties of Exponents**SIMPLIFY. Show all your work to justify your final answer for each problem. (3 pts per problem)**

1. $a^2(a^3)(a^6)$

2. $x(x^2)(x^7)$

3. $(y^2z)(yz^2)$

4. $(\ell^2k^2)(\ell^3k)$

5. $(a^2b^4)(a^2b^4)$

6. $(cd^2)(c^3d^2)$

7. $(2x^2)(3x^5)$

8. $(5a^7)(4a^2)$

9. $(4xy^3)(3x^3y^5)$

10. $(7a^5b^2)(a^2b^3)$

11. $(-5m^3)(3m^8)$

12. $(-2c^4d)(-4cd)$

13. $(3pr^2)^2$

14. $(2b^3c^4)^2$