

Directions: Simplify the following monomials.		
1. $-3a + 52a$	2. $-12x^2y - 3x^2y$	3. $16ab^3 - 43ab^3$
4. $-15m - (-15m)$	5. $11c^2d^2 - 20c^2d^2$	6. $4ab + 13bc$
7. $-5a^2b^2 - a^2b^2$	8. $8x^2 - x^2 - 12x^2 + 2x^2$	9. $16x^2y - 4xy^2 - 5x^2y + 10xy^2$
10. Subtract $-2x$ from $-8x$	11. From $13xy^2$, subtract $21xy^2$	12. Subtract $17a^2b$ from $2a^2b$

Directions: Use the product rule to simplify the following monomials.		
13. $b^6 \cdot b^4$	14. $(x^3y^5)(x^8y^{10})$	15. $3a^4 \cdot 5a^3$
16. $5a(-3b)(-2a^2b^3)$	17. $11(4cd)(-cd^5)$	18. $(-xy^3)(4x^2y)$
19. $(-15xy^4) \cdot \left(-\frac{1}{3}xy^3\right)$	20. $(5a^2bc^3) \cdot \left(\frac{1}{5}abc^4\right)$	21. $\frac{1}{3}(2a^3b)(6b^3)$