

## Multiplying Monomials: The Product and Power Rules - Homework

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Simplify the expression in each problem.

1. $x^{12} \cdot x^5$	2. $x^3 \cdot x \cdot x^4$
3. $(-x)^4(-x)^2$	4. $(-x)^{33}(-x)^2$
5. $(2^2)^4$	6. $(x^5)^3$
7. $[(-x)^2]^{40}$	8. $[(-x)^5]^3$
9. $(2xy)^3$	10. $(x^4y^2z)^3$
11. $\left(\frac{3}{2}x^4\right)^3$	12. $(-2x^2yz^3)^3$
13. $(-x^8y^3)^4$	14. $(4ab)(2a^3b^2)$
15. $(7x)(2x^3)$	