Exponent Properties Assignment

(2 points per question; 1 = showing work; 1 = correct answer)

Correct each of the following errors by circling the error, describing what is wrong, entering what should be there instead, and entering the correct answer.

MARKET - - - - - - -

1.
$$(3x^2)(-2x^4) = 3(-2)x^{2 \cdot 4} = 6x^8$$

2.
$$4a^2 \cdot 3a^5 = (4 + 3)a^{2+5} = 7a^7$$

3.
$$x^6 \cdot x \cdot x^3 = x^{6+3} = x^9$$

4.
$$3^4 \cdot 2^3 = 6^{4+3}$$

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5. $8^2 \cdot 8^x = 8^{11}$	6. $5^7 \cdot 5^b = 5^3$	$7. x^{12} \bullet x^n = x^{12}$

Simplify.

8. $(2x^2y^3)(4xy^{-2})$	9. $-4x^3(2x^2-9x)$	10. $4^{y+1} \cdot 4^{1-x}$
11. $5t^{-2} \cdot 2t^{-5}$	$12. (3x)^4$	13. $(6m^4)^2$
14. $(x^2)^5(x^3)^2$	15. $(3b^{-2})^2(a^2b^4)^3$	16. $(2a^2b^5)^{-4}(b^{-1}a^8)^6$

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Simplify.

17. $\frac{10^9}{10^3}$	18. $\frac{4m^{10}}{2m^8}$	19. $\frac{y^3z^{10}}{y^5z^8}$
$20. \ \frac{a^8b^6c^7}{a^4b^{10}c^3}$	21. $\frac{d^2e^3f^5}{e^6f^7g^8}$	$22.\frac{m^{-3}}{3m^6}$
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