

Math 0406-Learning Outcome: Simplify expressions using the laws of exponents

1. $4x^3 \cdot 3x^4$

2. $(-4a^3b)(2a^2b^3)$

3. $(-3y^3)^2$

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

5. $(a^2b^3)(ab^3)^2$

6. $\frac{1}{8^{-2}}$

7. $\frac{a^3}{a^7}$

8. $(32x^3y^4)^0$

9. $\frac{14x^3y^6}{21x^5y^6}$

10. $\frac{2x^{-1}y^{-4}}{8xy}$

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Answers:

1. $12x^7$

2. $-8a^5b^4$

3. $9y^6$

4. $x^{15}y^{20}$

5. a^4b^9

6. 64

7. $\frac{1}{a^4}$

8. 1

9. $\frac{2}{3x^2}$

10. $\frac{1}{4x^2y^5}$