Examining Exponents

Use rules of exponents to solve the below expressions.

1. $a^m \times a^n$ 1. _____

2. $\frac{x^5}{x^2}$ 2. _____

3. a^0 3. _____

4. $x^2 \times y^2$ 4. _____

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

6. $a^2 \times a^4$ 6. _____

7. $\frac{b^3}{b^7}$ 7. _____

8. x^1 8. _____

9. $(y^{1/2})^2$ 9. _____

10. $a^{1/2}$ 10. _____

11. $(b^2)^{1/3}$ 11. _____

12. $(x^{-2})^{1/4}$ 12. _____

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Examining Exponents

Answer Sheet

1. a^{m+n}
2. x^3
3. 1
4. x^2y^2
5. x^{12}
6. a^6
7. b^{-4} OR $1 / b^4$
8. x
9. y
10. $\sqrt{a}$
11. $b^{2/3}$ OR $\sqrt[3]{b^2}$
12. $x^{-1/2}$ OR $1 / \sqrt{x}$ OR $\sqrt{x} / x$

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