

Exponents Day 2 Homework

Simplify the following. DO NOT USE A CALCULATOR

1. $(-3x)^2$

2. $(p^4q^2)^7$

3. $(x^4y^3)^2(x^3y^0)^2$

4. $(ac^2)^{-2}(ac)^4$

5. $(3m^7)(m^2n)(5m^3n^8)$

6. $-5^2z^2z^3$

7. $(5x^2)^2(5x^2)$

8. $-(4x^3)^4$

9. $xy(x^2)^3(y^3)^4$

10. $(a^{-3})^4(-2a^7)^2$

11. $\frac{(h^8k^3)^7}{hk}$

12. $\frac{(p^{10}q^6)^3}{p^{10}q^{20}}$

Explain the error in each of the following:

13. $x^2 \cdot x^4 = x^8$

14. $\frac{x^{10}}{x^5} = x^2$

15. $(x^4)^5 = x^9$

Exponents Day 2 Homework

Simplify the following. DO NOT USE A CALCULATOR

1. $(-3x)^2$

2. $(p^4q^2)^7$

3. $(x^4y^3)^2(x^3y^0)^2$

4. $(ac^2)^{-2}(ac)^4$

5. $(3m^7)(m^2n)(5m^3n^8)$

6. $-5^2z^2z^3$

7. $(5x^2)^2(5x^2)$

8. $-(4x^3)^4$

9. $xy(x^2)^3(y^3)^4$

10. $(a^{-3})^4(-2a^7)^2$

11. $\frac{(h^8k^3)^7}{hk}$

12. $\frac{(p^{10}q^6)^3}{p^{10}q^{20}}$

Explain the error in each of the following:

13. $x^2 \cdot x^4 = x^8$

14. $\frac{x^{10}}{x^5} = x^2$

15. $(x^4)^5 = x^9$