

Algebra II Practice Quiz 1.5**Short Answer**

1. (5 points) Write $-(3z)^3(u-3)^2$ in expanded form.
2. (5 points) Simplify the expression $(4)^{-1}(2)^0$.
3. (5 points) Simplify the expression $(-5a)^2(a^2b)^5$. Assume all variables are nonzero.
4. (5 points) Simplify the expression $\frac{6.61 \times 10^9}{2.16 \times 10^{-3}}$. Write the answer in scientific notation.
5. (5 points) Write the expression $(5xy)^4$ in expanded form.
6. (5 points) Simplify the expression $\left(\frac{5.64 \times 10^7}{15.792 \times 10^4} \right)^2$. Write the answer in scientific notation.

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Answer Section

SHORT ANSWER

1. $-(3z)(3z)(3z)(u-3)(u-3)$

2. $\frac{1}{4}$

3. $25a^{12}b^5$

4. 3.06×10^{12}

5. $(5xy)(5xy)(5xy)(5xy)$

6. 1.28×10^5