

Exponents Rules

Name: _____

Date: _____

Rewrite each expression using product rule.

1) $1^5 \times 1^6 =$ _____

2) $11^7 \times 11^2 =$ _____

3) $7^9 \times 7^4 =$ _____

4) $6^5 \times 6^{10} =$ _____

5) $14^8 \times 14^3 =$ _____

6) $10^3 \times 10^1 =$ _____

Rewrite each expression using quotient rule.

1) $17^4 \div 17^9 =$ _____

2) $13^5 \div 13^6 =$ _____

3) $14^{10} \div 14^2 =$ _____

4) $15^8 \div 15^7 =$ _____

5) $11^3 \div 11^8 =$ _____

6) $2^{10} \div 2^{10} =$ _____

Rewrite each expression using power rule.

1) $(10^5)^9 =$ _____

2) $(9^1)^2 =$ _____

3) $(11^8)^2 =$ _____

4) $(1^7)^6 =$ _____

5) $(16^4)^8 =$ _____

6) $(13^5)^4 =$ _____

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Rewrite each expression using product rule.

1) $1^5 \times 1^6 = \underline{1^{11}}$

2) $11^7 \times 11^2 = \underline{11^9}$

3) $7^9 \times 7^4 = \underline{7^{13}}$

4) $6^5 \times 6^{10} = \underline{6^{15}}$

5) $14^8 \times 14^3 = \underline{14^{11}}$

6) $10^3 \times 10^1 = \underline{10^4}$

Rewrite each expression using quotient rule.

1) $17^4 \div 17^9 = \underline{\frac{1}{17^5}}$

2) $13^5 \div 13^6 = \underline{\frac{1}{13^1}}$

3) $14^{10} \div 14^2 = \underline{14^8}$

4) $15^8 \div 15^7 = \underline{15^1}$

5) $11^3 \div 11^8 = \underline{\frac{1}{11^5}}$

6) $2^{10} \div 2^{10} = \underline{2^0}$

Rewrite each expression using power rule.

1) $(10^5)^9 = \underline{10^{45}}$

2) $(9^1)^2 = \underline{9^2}$

3) $(11^8)^2 = \underline{11^{16}}$

4) $(1^7)^6 = \underline{1^{42}}$

5) $(16^4)^8 = \underline{16^{32}}$

6) $(13^5)^4 = \underline{13^{20}}$