

Exponents Rules

Name: _____

Date: _____

Rewrite each expression using product rule.

1) $11^6 \times 11^7 =$ _____

2) $12^9 \times 12^6 =$ _____

3) $19^3 \times 19^5 =$ _____

4) $15^5 \times 15^8 =$ _____

5) $20^8 \times 20^4 =$ _____

6) $16^{10} \times 16^3 =$ _____

Rewrite each expression using quotient rule.

1) $18^7 \div 18^9 =$ _____

2) $15^6 \div 15^3 =$ _____

3) $20^9 \div 20^{10} =$ _____

4) $11^1 \div 11^3 =$ _____

5) $6^4 \div 6^8 =$ _____

6) $14^5 \div 14^7 =$ _____

Rewrite each expression using power rule.

1) $(10^8)^5 =$ _____

2) $(29^{15})^2 =$ _____

3) $(14^4)^2 =$ _____

4) $(12^6)^3 =$ _____

5) $(19^9)^3 =$ _____

6) $(25^5)^{12} =$ _____

Exponents Rules

Name: _____

Date: _____

Rewrite each expression using product rule.

1) $11^6 \times 11^7 = \underline{11^{13}}$

2) $12^9 \times 12^6 = \underline{12^{15}}$

3) $19^3 \times 19^5 = \underline{19^8}$

4) $15^5 \times 15^8 = \underline{15^{13}}$

5) $20^8 \times 20^4 = \underline{20^{12}}$

6) $16^{10} \times 16^3 = \underline{16^{13}}$

Rewrite each expression using quotient rule.

1) $18^7 \div 18^9 = \underline{\frac{1}{18^2}}$

2) $15^6 \div 15^3 = \underline{15^3}$

3) $20^9 \div 20^{10} = \underline{\frac{1}{20^1}}$

4) $11^1 \div 11^3 = \underline{\frac{1}{11^2}}$

5) $6^4 \div 6^8 = \underline{\frac{1}{6^4}}$

6) $14^5 \div 14^7 = \underline{\frac{1}{14^2}}$

Rewrite each expression using power rule.

1) $(10^8)^5 = \underline{10^{40}}$

2) $(29^{15})^2 = \underline{29^{30}}$

3) $(14^4)^2 = \underline{14^8}$

4) $(12^6)^3 = \underline{12^{18}}$

5) $(19^9)^3 = \underline{19^{27}}$

6) $(25^5)^{12} = \underline{25^{60}}$