# Exponents Rules

Name:_____ Date:_____

Rewrite each expression using product rule.

1) $6^5 \times 6^8 =$ _____

2) $7^4 \times 7^1 =$ _____

3) $9^2 \times 9^7 =$ _____

4) $12^9 \times 12^6 =$ _____

5) $18^6 \times 18^3 =$ _____

6) $5^5 \times 5^8 =$ _____

Rewrite each expression using quotient rule.

1) $7^5 \div 7^4 =$ _____

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

3) $10^7 \div 10^2 =$ _____

4) $14^9 \div 14^7 =$ _____

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

6) $12^5 \div 12^8 =$ _____

Rewrite each expression using power rule.

1) $(5^5)^4 =$ _____

2) $(11^7)^2 =$ _____

3) $(18^3)^6 =$ _____

4) $(3^5)^1 =$ _____

5) $(7^8)^2 =$ _____

6) $(9^9)^3 =$ _____

# Exponents Rules

Name:_____ Date:_____

Rewrite each expression using product rule.

1) $6^5 \times 6^8 = \underline{6^{13}}$

2) $7^4 \times 7^1 = \underline{7^5}$

3) $9^2 \times 9^7 = \underline{9^9}$

4) $12^9 \times 12^6 = \underline{12^{15}}$

5) $18^6 \times 18^3 = \underline{18^9}$

6) $5^5 \times 5^8 = \underline{5^{13}}$

Rewrite each expression using quotient rule.

1) $7^5 \div 7^4 = \underline{7^1}$

2) $8^{10} \div 8^3 = \underline{8^7}$

3) $10^7 \div 10^2 = \underline{10^5}$

4) $14^9 \div 14^7 = \underline{14^2}$

5) $6^8 \div 6^6 = \underline{6^2}$

6) $12^5 \div 12^8 = \underline{\frac{1}{12^3}}$

Rewrite each expression using power rule.

1) $(5^5)^4 = \underline{5^{20}}$

2) $(11^7)^2 = \underline{11^{14}}$

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

4) $(3^5)^1 = \underline{3^5}$

5) $(7^8)^2 = \underline{7^{16}}$

6) $(9^9)^3 = \underline{9^{27}}$