

Exponents Rules

Name: _____

Date: _____

Rewrite each expression using power rule.

1) $(9^{27})^4 =$ _____

2) $(4^{12})^9 =$ _____

3) $(2^{22})^6 =$ _____

4) $(3^{20})^5 =$ _____

5) $(67^{26})^6 =$ _____

6) $(57^{23})^5 =$ _____

7) $(72^{28})^4 =$ _____

8) $(4^{19})^8 =$ _____

9) $(5^{29})^5 =$ _____

10) $(15^{31})^3 =$ _____

11) $(22^{27})^4 =$ _____

12) $(38^{34})^2 =$ _____

13) $(66^{30})^3 =$ _____

14) $(6^{37})^2 =$ _____

15) $(72^{33})^5 =$ _____

16) $(5^{35})^5 =$ _____

17) $(55^{32})^6 =$ _____

18) $(40^{40})^4 =$ _____

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Rewrite each expression using power rule.

1) $(9^{27})^4 = \underline{9^{108}}$

2) $(4^{12})^9 = \underline{4^{108}}$

3) $(2^{22})^6 = \underline{2^{132}}$

4) $(3^{20})^5 = \underline{3^{100}}$

5) $(67^{26})^6 = \underline{67^{156}}$

6) $(57^{23})^5 = \underline{57^{115}}$

7) $(72^{28})^4 = \underline{72^{112}}$

8) $(4^{19})^8 = \underline{4^{152}}$

9) $(5^{29})^5 = \underline{5^{145}}$

10) $(15^{31})^3 = \underline{15^{93}}$

11) $(22^{27})^4 = \underline{22^{108}}$

12) $(38^{34})^2 = \underline{38^{68}}$

13) $(66^{30})^3 = \underline{66^{90}}$

14) $(6^{37})^2 = \underline{6^{74}}$

15) $(72^{33})^5 = \underline{72^{165}}$

16) $(5^{35})^5 = \underline{5^{175}}$

17) $(55^{32})^6 = \underline{55^{192}}$

18) $(40^{40})^4 = \underline{40^{160}}$