Name:

Date:

Division Property of Exponents

Simplify.

1) $\frac{b^{-4}}{b^4} =$

2) $\frac{5^2}{5^9} =$

3) $\frac{5^6}{5^9} =$

4) $(\frac{-5}{3})^3 =$

5) $\frac{n^2}{n^3} =$

6) $\frac{n^2}{n} =$

7) $\frac{x}{x^5} =$

8) $\frac{2^{12}}{2^{11}} =$

9) $\frac{2^{10}}{2^{11}} =$

10) $\frac{5^8}{5^4} =$

11) $(\frac{1}{5})^3 =$

12) $(\frac{1}{5})^4 =$

13) $\frac{3^4 \times 3^9}{3^1 \times 3^8} =$

14) $\frac{a^{17}}{a^{14}} =$

15) $\frac{a^6}{a^{14}} =$

16) $\frac{x^3}{x^5} =$

17) $\frac{x^{12}}{x^6} =$

12) $\frac{x^{12}}{x^9} =$

13) $\frac{3}{3^6} =$

14) $\frac{c^{12}}{c^5} =$

21) $\frac{3}{3^5} =$

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Name:

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Division Property of Exponents

Answers

Simplify.

1) $\frac{b^{-4}}{b^4} = 1$

2) $\frac{5^2}{5^9} = \frac{1}{5^7}$

3) $\frac{5^6}{5^9} = \frac{1}{5^3}$

4) $(\frac{-5}{3})^3 = \frac{-125}{27}$

5) $\frac{n^2}{n^3} = \frac{1}{n}$

6) $\frac{n^2}{n} = n$

7) $\frac{x}{x^5} = \frac{1}{x^4}$

8) $\frac{2^{12}}{2^{11}} = 2$

9) $\frac{2^{10}}{2^{11}} = \frac{1}{2}$

10) $\frac{5^8}{5^4} = 5^4$

11) $(\frac{1}{5})^3 = \frac{1}{125}$

12) $(\frac{1}{5})^4 = \frac{1}{5^4}$

13) $\frac{3^4 \times 3^9}{3^1 \times 3^8} = 3^4$

14) $\frac{a^{17}}{a^{14}} = a^3$

15) $\frac{a^6}{a^{14}} = \frac{1}{a^8}$

16) $\frac{x^3}{x^5} = \frac{1}{x^2}$

17) $\frac{x^{12}}{x^6} = x^6$

12) $\frac{x^{12}}{x^9} = x^3$

13) $\frac{3}{3^6} = \frac{1}{3^5}$

14) $\frac{c^{12}}{c^5} = c^7$

21) $\frac{3}{3^5} = \frac{1}{3^4}$

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