

Exponents

Name: _____

Date: _____

Evaluate the Exponents.

1) $\frac{36m^{-8}}{12m^6} =$ _____

2) $\frac{16y}{32y^{-20}} =$ _____

3) $\frac{46a^{-4}bc^{-8}}{16a^{-2}b^2c^3} =$ _____

4) $\frac{3p^2r^{-10}}{30p^2r} =$ _____

5) $\frac{5r^5s}{10r^{-3}} =$ _____

6) $\frac{46r^{-16}s}{2r^2s^2} =$ _____

7) $\frac{7x^2y^2}{70x^{-2}y^{-2}} =$ _____

8) $\frac{50y^{-16}}{5x^2y^2} =$ _____

9) $\frac{10c^{-2}d}{c^{-8}d^{-6}} =$ _____

10) $\frac{11d^3}{37d^{-14}} =$ _____

11) $\frac{10a^9b^{-6}}{5a^{-4}b^2} =$ _____

12) $\frac{18m^{-2}}{14m^{20}} =$ _____

13) $\frac{35y^5}{7^3} =$ _____

14) $\frac{12r^4s^{-3}}{3r^8s^{14}} =$ _____

15) $\frac{27m^5n^{-3}}{21m^{-2}n^5} =$ _____

16) $\frac{3x^{-7}y^6}{51x^5y^{-5}} =$ _____

Exponents

Name: _____

Date: _____

Evaluate the Exponents.

$$1) \quad \frac{36m^{-8}}{12m^6} = \frac{3}{m^{14}}$$

$$2) \quad \frac{16y}{32y^{-20}} = \frac{y^{21}}{2}$$

$$3) \quad \frac{46a^{-4}bc^{-8}}{16a^{-2}b^2c^3} = \frac{23}{8a^2bc^{11}}$$

$$4) \quad \frac{3p^2r^{-10}}{30p^2r} = \frac{1}{10r^{11}}$$

$$5) \quad \frac{5r^5s}{10r^{-3}} = \frac{r^8s}{2}$$

$$6) \quad \frac{46r^{-16}s}{2r^2s^2} = \frac{23}{r^{18}s}$$

$$7) \quad \frac{7x^2y^2}{70x^{-2}y^{-2}} = \frac{x^4y^4}{10}$$

$$8) \quad \frac{50y^{-16}}{5x^2y^2} = \frac{10}{x^2y^{18}}$$

$$9) \quad \frac{10c^{-2}d}{c^{-8}d^{-6}} = \frac{10c^6d^7}{1}$$

$$10) \quad \frac{11d^3}{37d^{-14}} = \frac{11d^{17}}{37}$$

$$11) \quad \frac{10a^9b^{-6}}{5a^{-4}b^2} = \frac{2a^{13}}{b^8}$$

$$12) \quad \frac{18m^{-2}}{14m^{20}} = \frac{9}{7m^{22}}$$

$$13) \quad \frac{35y^5}{7^3} = \frac{5y^5}{49}$$

$$14) \quad \frac{12r^4s^{-3}}{3r^8s^{14}} = \frac{4}{r^4s^{17}}$$

$$15) \quad \frac{27m^5n^{-3}}{21m^{-2}n^5} = \frac{9m^7}{7n^8}$$

$$16) \quad \frac{3x^{-7}y^6}{51x^5y^{-5}} = \frac{y^{11}}{17x^{12}}$$