Exponents

Name:_____ Date:_____

Evaluate the Exponents.

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

2) $\frac{4x^{-2}y^2}{3x^{-2}} =$ _____

3) $\frac{ab}{a^{-2}b^2} =$ _____

4) $\frac{3m^2n^2}{2m^2n^2} =$ _____

5) $3c^4 \times 4c^{-6} \times c^{-7} =$ _____

6) $2mn^2 \times 3m^2n^2 =$ _____

7) $\left(\frac{1}{2y}\right)^4 \times \left(\frac{1}{2y}\right)^2 =$ _____

8) $b^2 \times 3b^{-2} \times 2b^2 =$ _____

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

10) $\frac{x^{-2}}{x^6} =$ _____

11) $\frac{5n}{10n^{-6}} =$ _____

12) $\frac{4r^2s^2}{6r^{-2}s^7} =$ _____

13) $5n^2 \times 2n^4 =$ _____

14) $\left(\frac{4x}{2x}\right)^4 \times \left(\frac{2x}{x}\right)^2 =$ _____

15) $\left(\frac{2}{3b}\right)^4 \times \left(\frac{2}{3b}\right)^2 =$ _____

16) $\frac{m^{-4}}{2m^5} =$ _____

Exponents

Name:_____ Date:_____

Evaluate the Exponents.

1) $\dfrac{x}{x^{-4}} = x^5$

2) $\dfrac{4x^{-2}y^2}{3x^{-2}} = \dfrac{4y^2}{3}$

3) $\dfrac{ab}{a^{-2}b^2} = \dfrac{a^3}{b}$

4) $\dfrac{3m^2n^2}{2m^2n^2} = \dfrac{3}{2}$

5) $3c^4 \times 4c^{-6} \times c^{-7} = \dfrac{12}{c^9}$

6) $2mn^2 \times 3m^2n^2 = 6m^3n^4$

7) $\left(\dfrac{1}{2y}\right)^4 \times \left(\dfrac{1}{2y}\right)^2 = \left(\dfrac{1}{2y}\right)^6$

8) $b^2 \times 3b^{-2} \times 2b^2 = 6b^2$

9) $3z^2 \times 3z^3 = 9z^5$

10) $\dfrac{x^{-2}}{x^6} = \dfrac{1}{x^8}$

11) $\dfrac{5n}{10n^{-6}} = \dfrac{n^7}{2}$

12) $\dfrac{4r^2s^2}{6r^{-2}s^7} = \dfrac{2r^4}{3s^5}$

13) $5n^2 \times 2n^4 = 10n^6$

14) $\left(\dfrac{4x}{2x}\right)^4 \times \left(\dfrac{2x}{x}\right)^2 = 2^6$

15) $\left(\dfrac{2}{3b}\right)^4 \times \left(\dfrac{2}{3b}\right)^2 = \left(\dfrac{2}{3b}\right)^6$

16) $\dfrac{m^{-4}}{2m^5} = \dfrac{1}{2m^9}$