Practice Exercises

Convert the following expressions into expressions with positive exponents.

1. b^{-4}
2. $\dfrac{c^{-3}}{d^{-8}}$
3. $w^{-3}z^{-2}$
4. $a^{3}b^{-3}c$
5. $de^{-5}f$
6. $\dfrac{(x+y)}{(x-y)^{0}}$

Problem Set

Convert the following expressions into expressions with positive exponents.

1. a^{-7}
2. $\dfrac{a^{-4}}{e^{-5}}$
3. $x^{-2}y^{-5}$
4. $x^{2}y^{-5}z$
5. $mn^{-6}p$
6. $\dfrac{(a-b)}{(a+b)^{0}}$
7. $x^{-7}y^{2}z^{-4}$
8. $a^{-4}b^{5}c^{-2}$

9. $m^{-3}n^2p^{-8}$

10. $\dfrac{(m^2-n)}{(m^2+n)^0}$

Problem Set

1. $\dfrac{1}{a^7}$

2. $\dfrac{\dfrac{1}{a^4}}{\dfrac{1}{e^5}}$

$= \dfrac{1}{a^4} \div \dfrac{1}{e^5}$

$= \left(\dfrac{1}{a^4}\right)(e^5)$

$= \dfrac{e^5}{a^4}$

3. $\left(\dfrac{1}{x^2}\right)\left(\dfrac{1}{y^5}\right) = \dfrac{1}{x^2y^5}$

4. $(x^2)\left(\dfrac{1}{y^5}\right)(z) = \dfrac{x^2z}{y^5}$

5. $(m)\left(\dfrac{1}{n^6}\right)(p) = \dfrac{mp}{n^6}$

6. $\dfrac{(a-b)}{1} = a-b$

7. $\left(\dfrac{1}{x^7}\right)(y^2)\left(\dfrac{1}{z^4}\right)$

$$= \frac{y^2}{x^7 z^4}$$

8. $\left(\frac{1}{a^4}\right)(b^5)\left(\frac{1}{c^2}\right)$

$$= \frac{b^5}{a^4 c^2}$$

9. $\left(\frac{1}{m^3}\right)(n^2)\left(\frac{1}{p^8}\right)$

$$= \frac{n^2}{m^3 p^8}$$

10. $\frac{(m^2 - n)}{1} = m^2 - n$