

Negative Exponents

Write each with a negative exponent other than 1.

① $\frac{1}{25}$

② $\frac{1}{8}$

③ $\frac{1}{4+8}$

Write each with a positive exponent.

④ x^{-3}

⑤ w^0

⑥ $\frac{2}{x^{-4}}$

⑦ $6m^{-5}$

⑧ $10x^{-3}y$

⑨ $-7x^2w^{-5}$

Simplify

⑩ $4^{-3} \cdot 4^2$

⑪ $6^2 \cdot 6^{-1}$

⑫ $w^{-3} \cdot w^6$

⑬ $\frac{k^6}{k^8}$

⑭ $\frac{x^{-6}}{x^{-2}}$

⑮ $x^{-3} \cdot x \cdot x^{-5}$

Find the missing exponent (*)

⑯ $\frac{x^7}{x^*} = x^4$

⑰ $n^4 \cdot n^* = n^1$

Answers:

① 5^{-2}

② 2^{-3}

③ 4^{-8}

④ $\frac{1}{x^3}$

⑤ 1

⑥ $2x^4$

⑦ $\frac{6}{m^5}$

⑧ $\frac{104}{x^3}$

⑨ $\frac{-7x^2}{w^5}$

⑩ $\frac{1}{4}$

⑪ 6

⑫ w^3

⑬ $\frac{1}{k^2}$

⑭ $\frac{1}{x^4}$

⑮ $\frac{1}{x^7}$

⑯ $* = 3$

⑰ $* = -3$