Negative Exponents and Scientific Notation

Example 1:   Example 2:   Example 3:   Example 4:

4^{-3} $(-3)^{-4}$ $\left(\frac{1}{2}\right)^{-5}$ $7x^{-3}$

Example 5: $4^{-1} + 4^{-2}$ Example 6: $\dfrac{p^{-5}}{q^{-4}}$

Example 7: $\dfrac{-1}{p^{-4}}$ Example 8: $\dfrac{p^2 p}{p^{-1}}$ Example 9: $\dfrac{(x^2)^8 x}{x^9}$

Example 10: $(x^5 y^3)^{-3}$ Example 11: $\dfrac{(y^4)^2}{y^{12}}$

Example 12: $(-2x^3 y^{-4})(3x^{-1} y)$ Example 13: $\left(\dfrac{x^{-2} y^4}{x^3 y^7}\right)^2$

Write in scientific notation:
Example 14: $78{,}000$ Example 15: 0.000000017

Write in regular notation:
Example 16: 1.16×10^6 Example 17: 6.35×10^{-4}