

Exercise 2015-8EC-00001(1)

(1) Simplify the following by using exponential laws:

(a) $\frac{-14m^6n^2}{7mn^5}$

(b) $(2pq^2)^5$

(c) $(d^3 + 4d^2)^0$

(d) $p^3 \times p \times q^7 \times q^{-3} \times p^4$

(e) $(3x^2y^6m)^2$

(f) $-28pq^2 \div -7p^3q$

(g) $3a^2b^6 \times 4ab$

(h) $\sqrt{36x^{16}}$

(2) Write the following in scientific notation:

(a) 2 374

(b) 1 500 234

(c) 18 billion

(3) Write the following numbers:

(a) $1,4 \times 10^3$

(b) $2,89 \times 10^{12}$

(c) $8,4001 \times 10^1$