Example :- Simplify $(2x^3)^4$

Deal with the power of **2** first (i.e. 2^4) then the indices.

$(2x^3)^4 = 16x^{12}$

Simplify as far as possible :-

(a) $(3x^4)^2$ (b) $(5x^2)^3$ (c) $(4x^5)^3$

(d) $(10x^3)^3$ (e) $(3x^4)^5$ (f) $(-2x^4)^6$

(g) $(15x^{2\cdot5})^2$ (h) $(3x^{0\cdot5})^6$ (i) $(-3x^{-4})^5$.

(a) $\left(\frac{1}{2}x^3\right)^2$ (b) $\left(\frac{2}{3}x^4\right)^3$ (c) $(0{\cdot}25x^6)^3$