a)
$$\frac{(2ab)^3}{2ab^{-3}} = \frac{2^3 \cdot a^3 \cdot b^3}{2ab^{-3}} \cdot \frac{b^3}{b^3} = \frac{8 \cdot a^3 \cdot b^3 \cdot b^3}{2 \cdot a \cdot b^{-3+3}}$$

$$= \frac{8a^3 \cdot b^6}{2 \cdot a} = 4 \cdot a^2 \cdot b^6$$

b)
$$\frac{4a^3 \cdot b^{-2} (3a)^2}{3a^{-4} \cdot b} = \frac{4a^3 \cdot b^{-2} \cdot 9a^2}{3a^{-4} \cdot b} = \frac{4 \cdot a^5 \cdot 9b^{-2}}{3a^{-4} \cdot b} \cdot \frac{a^4}{a^4}$$

$$= \frac{4a^4 \cdot 9b^{-2}}{3a^6 \cdot b} = \frac{12 \cdot a^4 \cdot b^{-2}}{b} \cdot \frac{b^2}{b^2} = \frac{12a^4}{b^3} = 12a^4 \cdot b^{-3}$$

(2)
$$\left(\frac{2}{x}\right)^{-3} = \frac{1}{\left(\frac{2}{x}\right)^3} = \frac{1}{\frac{2^5}{x^3}} = \frac{1}{\frac{8}{x^3}} \cdot \frac{x^3}{x^3} = \frac{x^3}{8}$$

d)
$$\left(\frac{1}{x}\right)^{-h} = \frac{1}{\left(\frac{1}{x}\right)^{h}} = \frac{1}{\frac{1}{x^{h}}} = \frac{1}{\frac{1}{x^{h}}} \cdot \frac{x^{h}}{x^{h}} = x^{h}$$