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a) $(2 \cdot x^4)^3 + 2(x^4)^3 = 2^3 \cdot x^{4 \cdot 3} + 2 \cdot x^{4 \cdot 3}$

$= 8x^{12} + 2x^{12} = 10x^{12}$

b) $\left(\frac{2a}{b^2}\right)^2 = \frac{2a}{b^2} \cdot \frac{2a}{b^2} = \frac{4a^2}{b^4}$

c) $x^{\frac{1}{2}} \cdot x^{\frac{1}{3}} = x^{\frac{1}{2} + \frac{1}{3}} = x^{\frac{3}{6} + \frac{2}{6}} = x^{5/6}$

d) $\frac{x^{m/2}}{x^{m/3}} = x^{\frac{m}{2} - \frac{m}{3}} = x^{\frac{3m}{6} - \frac{2m}{6}} = x^{m/6}$