Exercise 3 Exercices de calail: correction 1(a) 443: $(3a^{3})^{3}(2a^{5}) = (3x^{2})a^{2}a^{3}b^{5} = 2a^{3}b^{8}$ (b) $444 \cdot (4 a^3 b^2 c) (-3 a b c^4) = (4 x -3 a^3 a^2 b^2 c c^4 = -4x^3 a^4 b^2 c^5 = -3 a^4 b^3 c^5$ (e) 445: $\left(\frac{4}{7}a^3xy^3\right) - \frac{5}{2}a^3y^4 = \left(\frac{4}{7}x - \frac{5}{2}\right)a^2a^3xy^3y^4 = \frac{4x^3}{7}a^5xy^7 = \frac{10}{7}a^5xy^7$ (d) $446 \cdot (-\frac{3}{4}z^{2})/(\frac{3}{5}a^{3}y^{5}) = (-\frac{3}{4}x^{\frac{3}{5}})a^{3}z^{2}y^{5} = -\frac{9}{20}a^{\frac{3}{2}}z^{\frac{3}{2}}y^{6}$ 448: (14 2 32) -6 2 15) = -14 x 6 a 2 3 5 x = -4 a 5 c (9) $443: \left(-\frac{7}{2}ax^{3}y\right) - \frac{8}{15}b^{3}xy^{3} + \frac{5}{21}abx^{3} = \left(-\frac{7}{2}x - \frac{8}{15}x + \frac{5}{21}\right)aab^{3}bx^{2}x^{3}yy^{2}$ $= +\frac{7}{2} \times 8 \times 5 \quad 2 \times 4 \times 3$ $= \frac{90 + 0}{6 \times 10^{3}} = \frac{4}{9} = \frac{4}{9} = \frac{4}{9} = \frac{6}{9} = \frac{6}{9}$ (h) 450: (-2xy2) (-4xy) = (-2xy2) -2xy2 (-4x2y) = (2k-2k-4) xxxy3y2y (i) 451: (50 b) (-2 a) 3/- 14 bxy+ = 5x(-2)x(-14) a+a b xxxxyx+ 0000 a 5 4 4 7 = 1 a 5 4 4 7 = 2 a 5 5 4 4 7 (i) 452: $(\frac{3}{5}x^{2}y^{2}(-\frac{1}{2}xy) = \frac{3}{5}x^{2}x^{2}x^{2} + \frac{5}{5}x^{2}x^{2}y^{2}y^{2} + \frac{7}{100}x^{7}y^{4}$.