

(C1-1.2) Name:

Homework Questions 2 – Simplifying Using Laws of Indices

1. Simplify the following like terms

a) $x^4 \times x^2$

b) $5y^4 \times 3y^6$

c) $2x^3y^5 \times 6x^3y^4$

d) $12x^6 \div 4x^3$

e) $20x^7y^4 \div 5x^4y^3$

f) $\frac{30x^3y^2z^5}{10x^4y^3z^6}$

g) $(2a)^3$

h) $(3x^2)^3$

i) $\left(\frac{4x^3}{3}\right)^2$

j) $\left(\frac{2x^2y^4}{5z^3}\right)^3$