

(C1-1.3) Name:

Homework Questions 3 – Expanding Brackets

1. Simplify the following by removing the single brackets

a) $4(x + 6)$

b) $x(x + 1)$

c) $5(x - 2) - 3(x + 6)$

d) $2x(x - 3) + 7x^2 + 5x$

e) $6yx^2 - 5xy(2x + 3y)$

f) $2x^2y^3(3x + 4y) + 5x^2(y^3 - y^4)$

2. Expand and simplify the following quadratics fully

a) $(x - 2)(x - 4)$

b) $3(x + 4)(x - 2)$

c) $(x + 4)^2$

d) $(x - 3)^2 - 2x(x + 4)$