

Algebra 201-007-50 C1

Quiz 6

October 9, 2008

Name: SOLUTIONS

Student Number:

1. (5 marks). Simplify:

$$\begin{aligned} & (3x^3 + 4x - 5) - 2x(x + 2)^2 \\ &= 3x^3 + 4x - 5 - [2x(x+2)(x+2)] \\ &= 3x^3 + 4x - 5 - [2x(x^2 + 4x + 4)] \\ &= 3x^3 + 4x - 5 - (2x^3 + 8x^2 + 8x) \\ &= 3x^3 + 4x - 5 - 2x^3 - 8x^2 - 8x \\ &= x^3 - 8x^2 - 4x - 5 \end{aligned}$$

