

Algebra 201-007-50 C1

Quiz 7

October 16, 2008

Name:

Student Number:

1. (4 marks). Factor:

$$x^2 - 10x - 39$$
$$= (x - 13)(x + 3)$$

$$\left| \begin{array}{l} A \cdot B = -39 \\ A + B = -10 \\ A = -13 \quad B = 3 \end{array} \right.$$

2. (6 marks). Factor:

$$\begin{aligned} & 2x^2 - 11x + 15 \\ &= 2x^2 - 5x - 6x + 15 \\ &= x(2x - 5) - 3(2x - 5) \\ &= (2x - 5)(x - 3) \end{aligned} \left. \begin{array}{l} A \cdot B = 30 \\ A + B = -11 \\ A = -5 \quad B = -6 \end{array} \right\}$$