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**MAC1105 Section 1A26**  
**Quiz 2**

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Please show all of your work in a NEAT and ORGANIZED fashion.

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1. (3 points) Factor the polynomial by grouping.

$$3x^3 + 12x^2 - 4x - 16$$

2. (3 points) Factor the trinomial, if possible. (If not possible, state that the polynomial is prime.)

$$9x^2 - 3x - 2$$

3. (4 points) Factor the following polynomials, if possible. (If not possible, state that the polynomial is prime.)

(a)  $25x^2 - 36$

(b)  $x^2 + y^2$