

Name: _____

Math 111 Intro to Math Methods and Applications – Crawford

Quiz 2

02 October 2013

Book and notes (in any form) are not allowed. You may use a calculator. *Show all your work.* Good Luck! [Form A]

1. (3 pts) Factor by grouping. $8ab^2 - 12ab - 6b + 9$

2. (5 pts) Factor Completely.

(a). $x^2 + 5x - 24$

(b). $8x^2 - 21x - 9$

3. (12 pts) Perform the indicated operation and simplify.

(a). $\frac{4x - 8}{3x - 9} \cdot \frac{x - 3}{3x - 6}$

(b). $\frac{x^2 + 3x}{x + 1} \div (x^5 - 9x^3)$

(c). $\frac{2}{x + 1} - \frac{x - 2}{x^2 + x}$