

**Math 220 – Homework 10**

Attempt these problems before Exam 2

Total points=0

**PART A**

Problems from the textbook:

**Section 3.3** # 10(b,c,d), 12, 14, 15, 16**PART B**

1. The functions  $f, g \in F(\mathbf{R})$  defined by  $f(x) = 2x + 1$  and  $g(x) = 3x - 5$  are bijective. Determine the inverse function of  $g \circ f^{-1}$ .
2. Let  $a, b \in \mathbb{R} - \{0\}$  and let functions  $f, g \in F(\mathbf{R})$  be defined by

$$f(x) = ax + b, \quad g(x) = x + \frac{b}{a}.$$

Compute the *inverse* function of  $g \circ f^{-1}$ .