Math 221   2007/10/8   **QUIZ 4**   Name _____

- Show all your work for each problem; show enough work to fully justify your answer.
- Simplify all answers as far as possible.

(1) [Points: 20] Let $f(x) = \dfrac{3x + 5}{2x + 5}$.

    (a) Find $f^{-1}(x)$.

    (b) Find $f'(x)$.

    (c) Find $\frac{d}{dx} f^{-1}(x)$ in two ways: from (a), and from (b).