

**Math 3 Written Homework due Friday, Oct. 6**

Let

$$f(x) = \frac{1}{x+3}.$$

Use the limit definition of derivative to find

- (1)  $f'(-7)$ .
- (2)  $f'(-5)$ .
- (3)  $f'(-1)$ .
- (4)  $f'(0)$ .