

Math 163A Class Drill 6: Don't Forget the Easy Derivative Rules Part II

[1] Let $f(x) = \frac{7}{(x+5)}$

(A) Find $f'(x)$, using the quotient rule.

(B) Start over. Find $f'(x)$ again, but this time don't use the quotient rule. Instead, start by rewriting f as a constant times a term in parentheses raised to a power. Then use the constant multiple rule and the chain rule.

[2] Let $g(x) = -\frac{7}{(x+5)^2}$

(A) Find $g'(x)$, using the quotient rule.

(D) Find $g'(x)$ again, but this time don't use the quotient rule. Instead, start by rewriting g as a constant times a term in parentheses raised to a power. Then use the constant multiple rule and the chain rule.