[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.