

Class Drill 6: Don't Forget the Easy Derivative Rules

[1] Let $f(x) = 7(x^2 + 3x + 5)$

(A) Find $f'(x)$, using the Product Rule to deal with the 7 in front.

(B) Start over. Find $f'(x)$ again, this time using the Constant Multiple Rule to deal with the 7 in front.

[2] Let $f(x) = \frac{(x^2 + 3x + 5)}{7}$

(A) Find $f'(x)$, using the Quotient Rule to deal with the fraction.

(B) Start over. Find $f'(x)$ again, but this time do not use the Quotient Rule. Instead, start by rewriting f as a constant times a term in parentheses. Then use the Constant Multiple rule