

Quiz 3.4 – Products of Functions

1. (1 pt) alfredLibrary/AUCI/chapter3/lesson4/quiz/product0pet.pg		
If $h(x) = (4+7x+7x^2)(-7x+5x^5-5x^7)$	then	h(x) =
f(x)g(x) where		
f =		
and		
g =		
Using the product rule		
h'(x) = * + *		

2. (1 pt) alfredLibrary/AUCI/chapter3/lesson4/quiz/product3pet.pg According to the product rule, if $y = x^6 \sqrt{x^2 + 5x + 10}$, then y' =_____

(Don't forget to use the chain rule when you differentiate the radical factor.)

3. (1 pt) alfredLibrary/AUCI/chapter3/lesson4/quiz/product2pet.pg Let $f(x) = \frac{12x^2 + 3x}{7x - 8}$. Rewrite f as a product, then use the product and chain rules to compute f'(x). (We will eventually derive a "quotient rule" for the derivative of a quotient function.)

f'(x) =

Generated by @WeBWorK, http://webwork.maa.org, Mathematical Association of America