

# Chain Rule WS 4

Find  $f'(x)$ .

$$1) f(x) = e^{\cos(2x^3)} - \sqrt{\ln x}$$

$$2) f(x) = (\sqrt[3]{4x})(\tan^3 \sqrt{x})$$

$$3) f(x) = \frac{\sec x}{(x^2 - 4)^5}$$

$$4) f(x) = \sqrt[3]{\sqrt{x} - \sin(3x)}$$

$$5) f(x) = \frac{\cot^2 x}{x} - \frac{\ln 4x}{3x}$$

$$6) f(x) = \frac{5x^2 \ln(x^3)}{\csc(2x)} - \frac{4e^{x^3}}{5x}$$

7) Use the table to find  $[f(g(2))]'$

$x$	$f(x)$	$f'(x)$	$g(x)$	$g'(x)$
2	-3	5	6	-8
6	9	-10	2	-1

Quiz  
Question  
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