Chapter 2 checkpoint!

Chapter 1 scorecard:

Learning target:	DF1	DF2	DFa	DFb	AD2
Your confidence level before starting (0-5):					
Your confidence level after the quiz (0-5):					
The mark you earned on this attempt:	Success! Try again!	Success! Try again!	Success! Try again!	Success! Try again!	Success! Try again!

Chapter 2 scorecard:

Learning target:	DF3	DF4	DF5	DF6	DF7	DF8
Your confidence level before starting (0-5):						
Your confidence level after the quiz (0-5):						
The mark you earned on this attempt:	Success! Try again!	Success! Try again!	Success! Try again!	Success! Try again!	Success! Try again!	Success! Try again!

Before anything else, please do the following:

- Rank your confidence from 0-5 on each of the learning targets. 5 means "I could teach a whole class about this;" 0 means "I am genuinely not sure I have heard these words before."

- Write your name on this page and on each of the other pages of the quiz.

Then do the quiz! Some reminders:

- Open notes, closed computer.

- If you need more room to write, use the back of the same learning target page, or ask me for some scratch paper.

- Read the questions carefully and make sure you're answering each part.

- Use good grammar for derivative problems.

- Show all your work and explain all your thinking!

When you are done:

- Rank your confidence from 0-5 on each of the learning targets. 5 means "I absolutely nailed that question for sure;" 0 means "oof, I definitely didn't get that one."

- Make double sure your name is on every page, including any scratch paper.

- Hand in your work, separated by learning target.

Have fun and do your best! I believe in u ♡

Learning target DF3, version 2

Demonstrate and explain how to find the derivative of the following functions. Be sure to write down which derivative rules (constant multiple, sum/difference, etc.) you are using in your work.

1. $h(y) = -4\ln(y) + 3\sin(y)$

2. $g(t) = \sqrt[4]{t^3} + \dfrac{7}{t^4}$

3. $f(x) = -x^5 - 4x^4 + 5x - 4$

Your name: _____

Learning target DF4, version 2

Demonstrate and explain how to find the derivative of the following functions. Be sure to write down which derivative rules (product, quotient, sum and difference, etc.) you are using.

1. $h(w) = -\dfrac{\cos(w)}{6w^2 + 5w + 4}$

2. $g(w) = \dfrac{3w^2 + 5w - 1}{w^8}$

3. $f(w) = -\left(4w^2 + 6w + 1\right)\ln(w)$

Learning target DF5, version 2

Demonstrate and explain how to find the derivative of the following functions. Be sure to write down which derivative rules (product, quotient, sum and difference, etc.) you are using.

1. $h(x) = -9\cos\left(-5x^2 + 3x + 4\right)$

2. $f(y) = -9\sin\left(y^{\frac{7}{2}}\right)$

3. $g(t) = -9\left(\sin(t)\right)^{\frac{7}{2}}$

4. $k(w) = (3w + e^w - 1)^4$

Learning target DF6, version 2

Demonstrate and explain how to find the derivative of the following functions. Be sure to write down which derivative rules (constant multiple, sum and difference, etc.) you are using.

1. $f(w) = \left(\dfrac{5w^6 + 1}{5w^6 + 2}\right)^6$

2. $g(x) = \left(5x^5 - 2x^3\right)^6 \sqrt{x}$

3. $h(y) = \sqrt{\sin\left(-2y^4 + 4\right)}$

Learning target DF7, version 2

1. Use implicit differentiation to find $\dfrac{dy}{dx}$, aka y', for the equation $5x^5 - 2\sin(y) = -8y^3 - 7$.

2. Use implicit differentiation to find $\dfrac{dy}{dx}$, aka y', for the equation $0 = -y\cos(x) - 2e^x$.