

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.
- 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 1

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. $f(x) = 2 \cos(x) + 4e^x$

2. $h(t) = \sqrt[3]{t^4} + \frac{4}{t^4}$

3. $g(w) = 6w^3 - 2w^2 - 9w - 2$

Learning target DF4, version 1

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. $g(x) = \frac{\ln(x)}{2x^2 + 6x - 3}$

2. $f(x) = (x^2 - 2x - 4) \cos(x)$

3. $h(t) = -\frac{3t^2 + 2t + 3}{t^3}$

Learning target DF5, version 1

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. $h(t) = 16(t + e^t + 2)^4$

2. $f(w) = 5 \sin\left(w^{\frac{7}{3}}\right)$

3. $g(x) = 5\left(\sin(x)\right)^{\frac{7}{3}}$

Learning target DF6, version 1

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. $g(x) = \sqrt{\cos(-2x^4 + 5)}$

2. $f(w) = \left(\frac{6(w^6 - 1)}{5w + 3} \right)^4$

3. $h(y) = (3y^2 + 7y)^4 y^{\frac{1}{4}}$

Learning target DF8, version 1

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. $m(u) = 6 \arcsin(u) \ln(u^4 + 9)$

2. $k(x) = \ln(4 \arcsin(x) + 7 \arctan(x))$

3. $h(w) = \frac{\arctan(2w)}{\ln(-2w)}$