Quiz: Derivatives

Instructions for Graded Review Questions

How much time do I have to complete these questions?

Unlimited. You can take as long you want to answer these questions.

Can I go back to the videos to check something, then come back to these Review Questions?

Yes, absolutely! These questions are for you to review what you've learned so far. Take your time.

Do these Review Questions count towards my final grade?

Yes, all of the review questions, combined together, are worth 50% of your total mark.

How many chances do I get to answer these questions?

It depends:

- For True/False questions, you only get one (1) chance.

- For any other question (that is not True/False), you get two (2) chances.

How can I check my overall course grade?

You can check your grades by clicking on "Progress" in the top menu.

Multiple Choice

1/1 point (graded)
What task does the following lines of code perform?

```
q=torch.tensor(1.0,requires_grad=True)

fq=2q**3+q

fq.backward()

q.grad
```

- Differentiates the function with respect to all values
- Makes a function that we can use in any part of the code
- Determines the derivative of `2q**3+q` at `q=1` ✔

Submit You have used 1 of 2 attempts

✔ Correct (1/1 point)

Multiple Choice

1/1 point (graded)
What's wrong with the following lines of code?

```
q=torch.tensor(1.0,requires_grad=False)

fq=2q**3+q

fq.backward()

q.grad
```

- The parameter `requires_grad` should be set to `True` ✔
- q is a float

- A differentiable function should be used

Submit You have used 1 of 2 attempts

✔ Correct (1/1 point)

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