

## 1.3 Derivatives in PyTorch

LATEST SUBMISSION GRADE

100%

1. How would you determine the derivative of  $y = 2x^3 + x$  at  $x=1$ ?

1 / 1 point

☒

```
1 x = torch.tensor(1.0, requires_grad=True)
2 y = 2 * x ** 3 + x
3 y.backward()
4 x.grad
```

☐

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1 x = torch.tensor(1.0, requires_grad=True)
2 y = 2 * x ** 3 + x
3 y.backward()
4 y.grad
```

✓ Correct  
correct

2. What's wrong with the following lines of code?

1 / 1 point

```
1 q=torch.tensor(1.0,requires_grad=False)
2 fq=2q**3+q
3 fq.backward()
4 q.grad
```

- ☒ The parameter `requires_grad` should be set to `True`
- ☐ `q` is a float
- ☐ A differentiable function should be used

✓ Correct  
correct