✓

Congratulations! You passed!

Grade received 100%

Latest Submission Grade 100%

To pass 80% or higher

1. For the the following code: 1 / 1 point

    model = Sequential([
    Dense(units=25, activation="sigmoid"),
    Dense(units=15, activation="sigmoid"),
    Dense(units=10, activation="sigmoid"),
    Dense(units=1, activation="sigmoid")])

    This code will define a neural network with how many layers?

    ○ 25

    ◉ 4

    ○ 5

    ○ 3

    ⊘ Correct
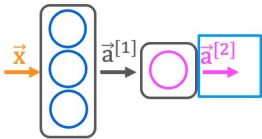   Yes! Each call to the "Dense" function defines a layer of the neural network.

2.   1 / 1 point


```
x = np.array([[200.0, 17.0]])
layer_1 = Dense(units=3, activation='sigmoid')
a1 = layer_1(x)


layer_2 = Dense(units=1, activation='sigmoid')
a2 = layer_2(a1)
```

How do you define the second layer of a neural network that has 4 neurons and a sigmoid activation?

    ○ Dense(layer=2, units=4, activation = 'sigmoid')

    ◉ Dense(units=4, activation='sigmoid')

    ○ Dense(units=4)

    ○ Dense(units=[4], activation=['sigmoid'])

    ⊘ Correct
    Yes! This will have 4 neurons and a sigmoid activation.

3.   1 / 1 point

Feature vectors

temperature (Celsius)	duration (minutes)	Good coffee? (1/0)
200.0	17.0	1
425.0	18.5	0

```
x = np.array([[200.0, 17.0]])

[[200.0, 17.0]]
```

···   ···   ···

If the input features are temperature (in Celsius) and duration (in minutes), how do you write the code for the first feature vector x shown above?

○

x = np.array([[200.0, 17.0]])

○

x = np.array([[200.0 + 17.0]])

○

x = np.array([[200.0],[17.0]])

○

x = np.array([['200.0', '17.0']])

⊘

Correct
Yes! A row contains all the features of a training example. Each column is a feature.