## Congratulations! You passed!

**Grade received** 100% **Latest Submission Grade** 100% **To pass** 80% or higher

Go to next item

1. Which is an example of a classification task?

1/1 point

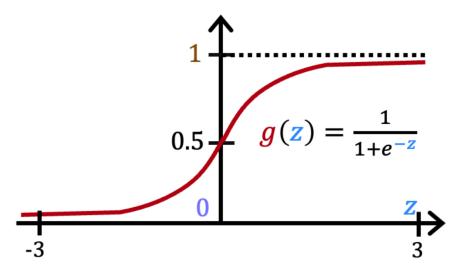
- O Based on a patient's age and blood pressure, determine how much blood pressure medication (measured in milligrams) the patient should be prescribed.
- O Based on a patient's blood pressure, determine how much blood pressure medication (a dosage measured in milligrams) the patient should be prescribed.
- Based on the size of each tumor, determine if each tumor is malignant (cancerous) or not.
- ✓ Correct

This task predicts one of two classes, malignant or not malignant.

**2.** Recall the sigmoid function is  $g(z)=rac{1}{1+e^{-z}}$ 

1/1 point

## sigmoid function

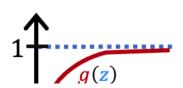


If z is a large positive number, then:

- $\bigcirc g(z)$  will be near 0.5
- $\bigcirc \ g(z)$  is near negative one (-1)
- $\bigcirc \ g(z)$  will be near zero (0)
- ✓ Correct

Say z = +100. So  $e^{-z}$  is then  $e^{-100}$ , a really small positive number. So,  $g(z)=rac{1}{1+ ext{a small positive number}}$  which is close to 1

3.



1/1 point

