CSSE 386 – Data Mining with Programming
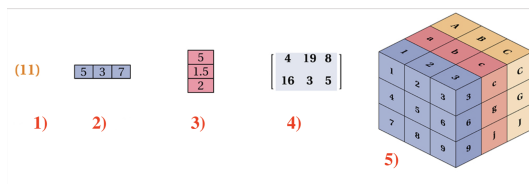## Rose-Hulman Institute of Technology

Worksheet 16

Name (Print):_____   Section:_____

1. PyTorch is an _____ machine learning framework that facilitates tensor computation on GPU and CPU using a _____

2. Identify the terms

   1)
   2)
   3)
   4)
   5)

3. 1) Tensors are _____ (similar to NumPy arrays) that can run on GPUs

   2) The base class for neural network layers and models in PyTorch is called: _____

   3) _____ are responsible for updating the model's parameters

4. ReLU (activation function) stands for _____

5. ReLU function takes a single number as an input, returning _____ if the input is negative, and the _____ if the input is positive

6. 1) What is the relu(-5) =

   2) What is the relu(10) =

7. Sigmoid function maps input x to a value between _____

8. 1) What is the sigmoid(0.2) =

   2) What is the sigmoid(0.9) =