# CS 4391 Introduction to Computer Vision Quiz 2 

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## Problem 1

Given a stereo pair of images, suppose that a pixel with coordinates $(x, y)=(140,240)$ on the left image corresponds to a pixel with coordinates $(x, y)=(120,240)$ on the right image. Suppose that the focal length of the stereo camera is 320 , and the baseline of the stereo camera is 0.05 . What is the depth value of the corresponding pixels?

## Problem 2

Given an input image with size $227 \times 227 \times 3$ (height, width, channel), apply a convolution layer with 56 kernels, kernel size $11 \times 11 \times 3$, stride 2 . What is the shape of the output of the convolution layer?

