## Quiz Submissions - mini-Quiz 2



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## Attempt 1

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**Submission View** 

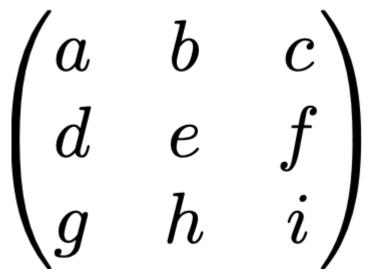
Your quiz has been submitted successfully.

Question 1 0 / 1 point

Choose all the statements below that are true.

- ✓ The fundamental matrix projects a 3D point in the right camera frame to a 2D point in the left image frame.
- The fundamental matrix projects a 3D point in the right camera frame to a 3D point in the left camera frame.
- $\Rightarrow$   $\checkmark$  The essential matrix includes the pose of the cameras with respect to each other.
- The fundamental matrix projects a point in the right image frame to a point in the left image.

Question 2 1 / 1 point



Assuming this camera matrix please fill in the correct correspondences:

√ 4 C

**1**. fx

**✓** <u>1</u> a

**2**. cy

**√** <u>2</u> f

**3**. fy

**√** \_3\_ e

4. CX

✓ \_5\_ i

5. 1

Question 3 0 / 1 point

Camera Projection

Assuming a camera at location [X Y Z] = [0, 0, 0] with a pose defined by the following rotation matrix:

[1, 0, 0]

[0, 1, 0]

[0, 0, 1]

given a camera matrix

[725, 0, 631]

[0, 726, 360]

[0, 0, 1]

At which "x camera coordinate" would the following 3D point be depicted:

[X, Y, Z] = [1,1,4]

Answer:

3,249 🗶 (812)

Question 4 1 / 1 point

What does a low disparity value mean?

The matching pixels are found far from the same position in both images

All epipolar lines meet at the optical center

All epipolar lines intersect at the epipoles

Done