



Theme 4 Quiz 1

TOTAL POINTS 5

1. Rigid registration has how many degrees of freedom? 1 point
- ☐ 3
 - ☒ 6
 - ☐ 12
 - ☐ an infinite number
2. Co-registration within a person does NOT cover the following type(s) of registration: 1 point
- ☒ registration to a population template
 - ☐ cross-sectional registration between modalities
 - ☐ longitudinal registration within modality
 - ☐ longitudinal registration between modalities
3. Rigid registration consists of a 1 point
- ☐ global scaling and rotation
 - ☐ all of these options
 - ☒ translation and rotation
 - ☐ only a rotation
4. One example of co-registration within a subject could be 1 point
- ☐ registering the T2-w volume to a population template
 - ☐ registering the T1-w volume to a population template
 - ☒ rigidly registering the FLAIR volume to the T1-w volume from a single subject's MRI study
 - ☐ registering a FLAIR volume from one subject to that of another subject
5. Let R be a rotation matrix and t be a translation vector. The rigid registration for a voxel v can be written as $T(v) = Rv + t$ 1 point
- ☒ True
 - ☐ False

☐ I, **Thomas John James**, understand that submitting another's work as my own can result in zero credit for this assignment. Repeated violations of the Coursera Honor Code may result in removal from this course or deactivation of my Coursera account.

[Learn more about Coursera's Honor Code](#)



Save

Submit