Medical Image Processing for interventional applications SS2020

1. Typical combination of Gaussians with same sigma should result in sqrt(2)*sigma
2. 3D Vesselness
   - Properties of good vessel
   - Measurement formulas, give all formulas or describe coefficients
   - What is the last step, when you have known s (→maximization)
3. A. name top down model (→ active shape models)
   B. What structure does Random Walker use, how is it splitted into 2 parts (→ graph with edges and nodes)
   C. Calculate Laplacian Matrix, 2x2 matrix given

4. Camera parameters (name both, explain and give formula for Pp (→ Pp=K*Pproj*D*p) p tilde

5. f0 question with function like f(x)^2+3*e^2a*f´(x)