Bouns 3

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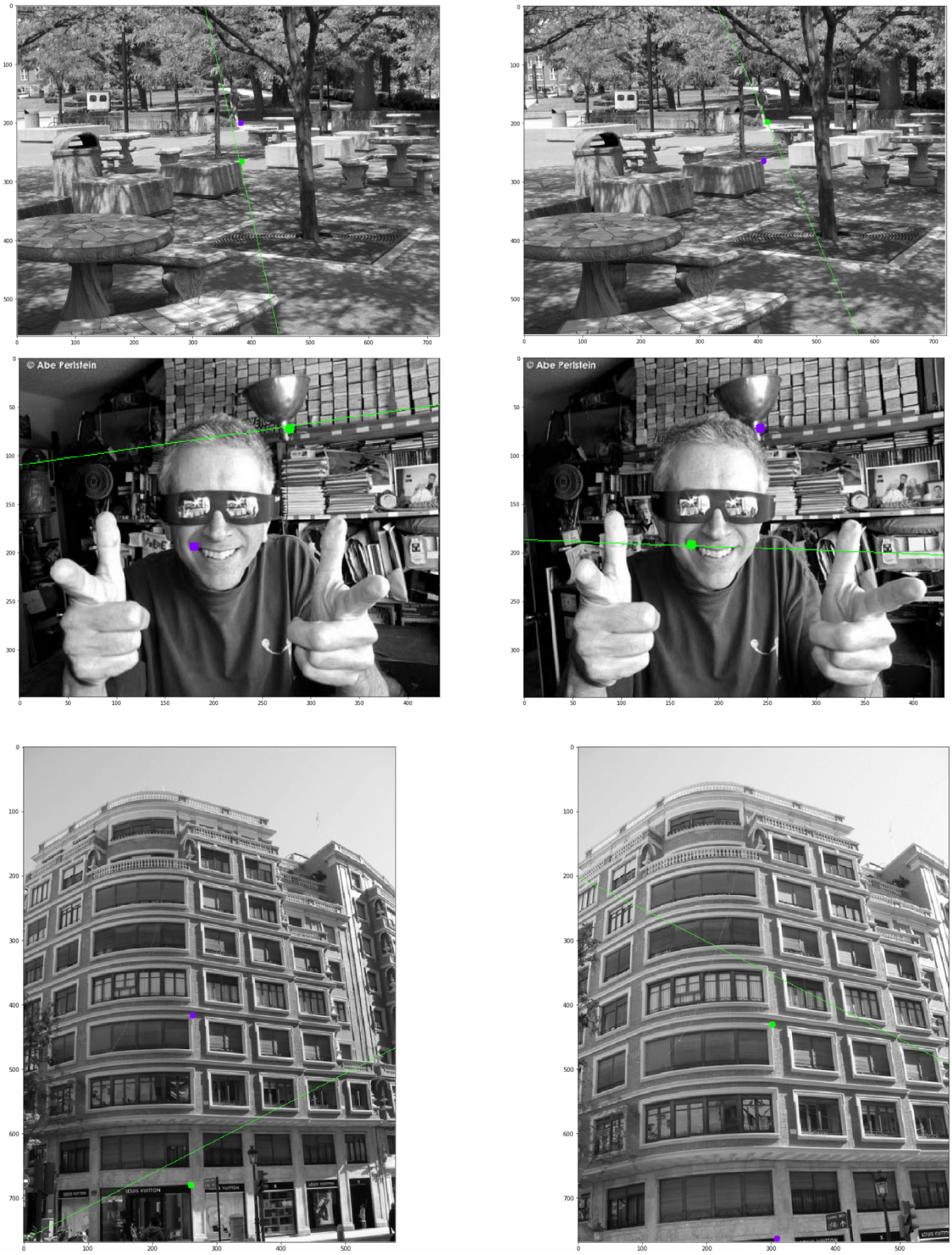
1.

```
(([[[ 1.6068e-07,  5.3760e-05, -2.1977e-02],
    [-5.0475e-05, -6.1928e-09,  9.5973e-05],
    [ 2.0635e-02, -2.5396e-03,  1.0000e+00]],

   [[ 1.3580e-06,  1.6423e-04, -2.3160e-02],
    [-1.6868e-04,  1.2135e-05,  5.7642e-02],
    [ 2.2999e-02, -6.5801e-02,  1.0000e+00]],

   [[-1.5203e-06, -2.1939e-04,  3.8173e-02],
    [ 2.0761e-04,  2.5219e-05,  9.3553e-02],
    [-3.6460e-02, -1.0275e-01,  1.0000e+00]],

   [[ 2.2383e-07, -1.3227e-06,  1.0027e-03],
    [ 2.4710e-06,  4.7734e-06, -3.6521e-03],
    [-9.6140e-04, -1.3032e-03,  1.0000e+00]],

   [[ 3.4313e-08,  1.2606e-05, -1.4410e-02],
    [-1.2669e-05, -4.8707e-09,  1.3777e-02],
    [ 1.4422e-02, -1.4627e-02,  1.0000e+00]]])
```

2.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4.

Img name	Point in Img(select)	Epipolar line F2	Pass or Not
Img11	[171 472] From img12	[[-0.4293965 0. 90311605 -368.402 7]]	P
Img12	[591 428] in img11	[[3.7858803e-02 -9.9928308e-01 4.0 687762e+02]]	P
Img21	[382 200] From img 22	[[-9.7568178e-01 2.1919186e-01 3.1 283163e+02]]	P
Img22	[410 265] In img 21	[[0.9193526 -0.3 934347 -303.98917]]	P
Img31	[180 194] from img32	[[-0.14044887 -0. 9900879 109.1938 5]]	P
Img32	[243 72] In img 31	[[-3.4315050e-02 9.9941105e-01 -1.8 762140e+02]]	P
Img41	[263 417] From img42	[[4.5752123e-01 8.8919872e-01 -6.8 028937e+02]]	P
Img42	[309 763] In img 41	[[0.4501734 -0.89 29412 179.796]]	P
Img51	[430 469] From img 52	[[-6.9245225e-01 -7.2146368e-01 1.5 752849e+03]]	P
Img52	[1050 1247] In img 51	[[-0.7136601 0.70 049214 28.723513]]	P

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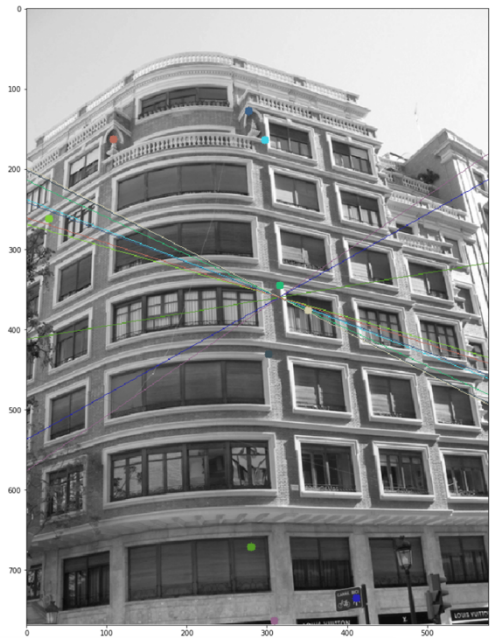

Epipoles	Image1	Image2
1	Out of image 1.851259,408.8042	47.287094 ,408.96106
2	351.6562 ,138.11125	390.35083, 139.49191
3	Out of image -472.15112 , 177.2639 6	Out of image -448.5431 , 172.33107
4	Out of image 10.172051, 759.8251	[315.64365, 360.48328
5	1.0870155e+03, 1.140 1531e+03	1.1607107e+03 ,1.1415 253e+0