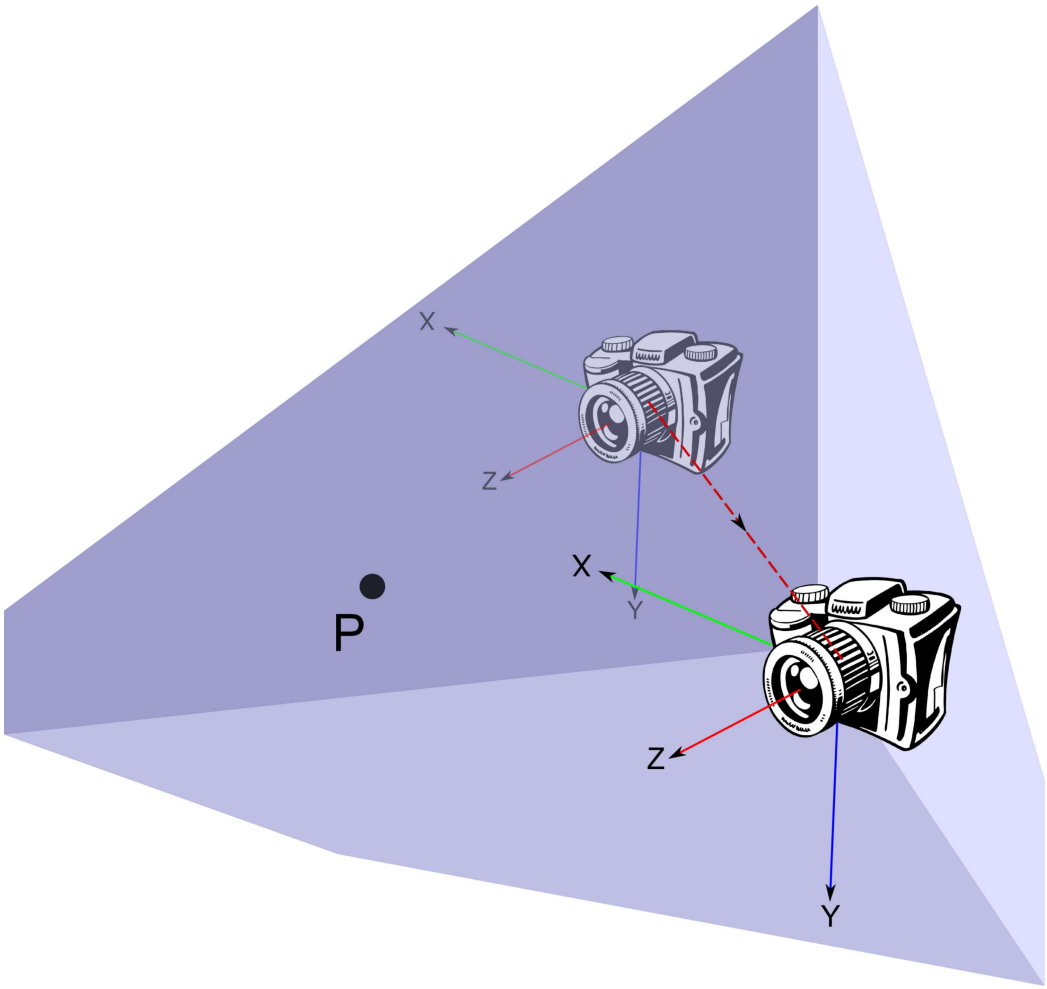

Given the information above:

Calculate the focal length (in pixels) along X axis:

554.25 ✔

554.25

Calculate the focal length (in pixels) along Y axis:

579.42 ✔

579.42

and construct the camera intrinsic matrix (K).

The image point p has pixel coordinates $(360,\ 302)$.

If we translate the camera by the vector $T = [0.2,\ 0.0,\ 0.0]^\top$ meters and take another picture, the point appears at image position $(330,\ 302)$.

Assuming that the first camera frame acts as the world reference frame, estimate the position of point P in 3D coordinates as:

X:

0.27 ✔

0.27

Y:

0.40 ✔

0.40

Z:

3.70 ✔

3.70

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- Focal lenght — 3
  Focal lenght needs to be similar in x axis and y axis?
- Point P — 2
  How can I calculate point P in 3D coordinates? I don't understand