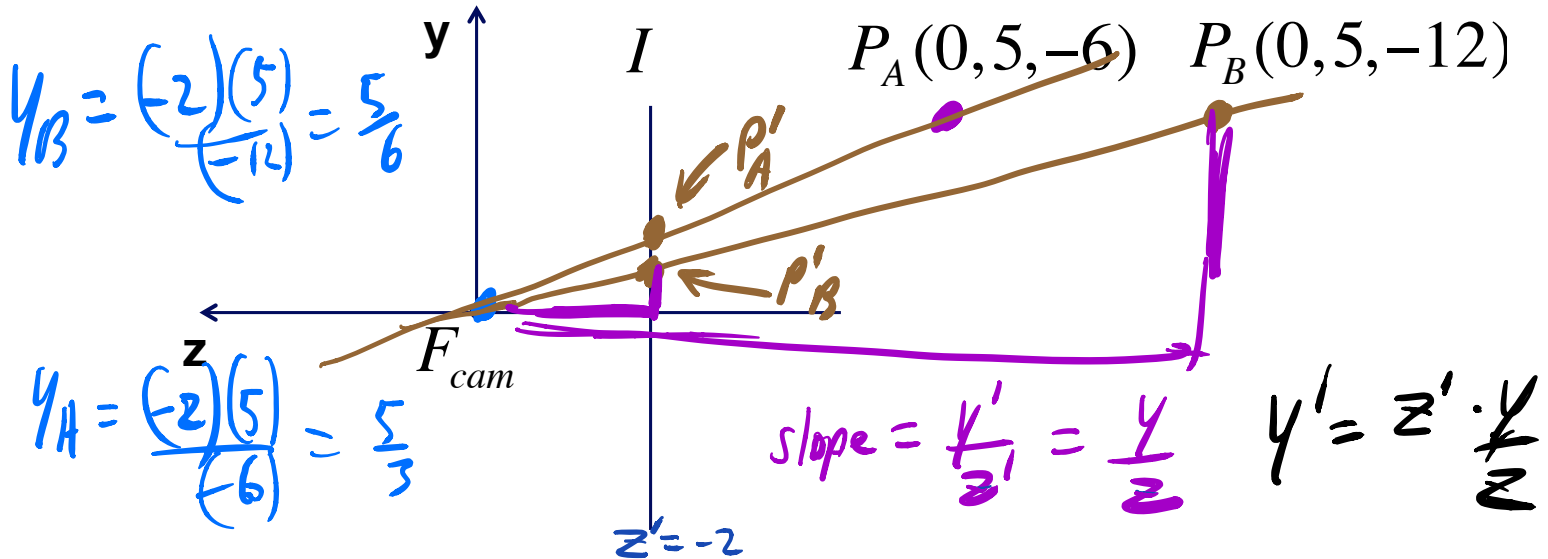


# Perspective Projection -- example

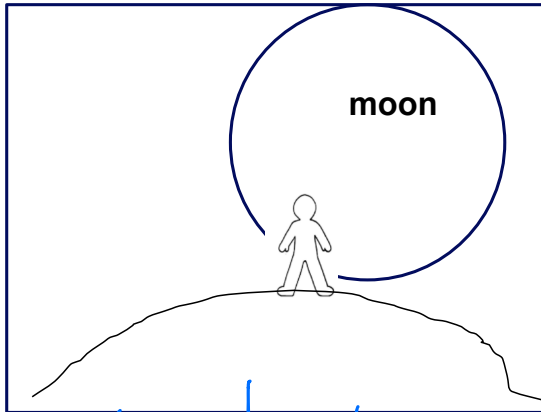


Compute the projected coordinates of the given points for a perspective projection. The image plane is located at  $z = -2$ .

In which direction should we move the image plane in order to obtain a larger image?

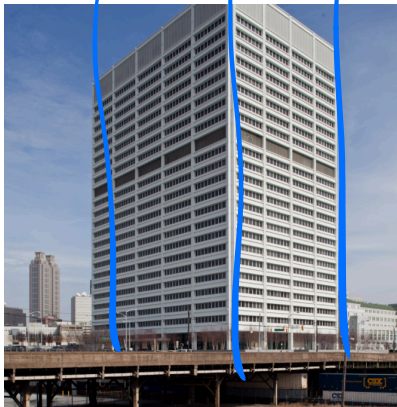
further away from the center of projection

# Impossible Photography?



How could we take a photograph like the one on the left?

*Stand very far away, and use a small field of view, e.g., as with a telephoto lens. In reality, the moon is much larger than the person!*



The edges of the building on the left are parallel, despite the viewer standing on the ground while taking the photograph. How is this possible?

*This can be done with a camera with a "tilt-shift" lens. The lens plane and image plane can remain vertical:*

