

# Vanishing Points

4 questions

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1  
point

1.

When the camera is zooming, do the vanishing points move?

☒ Yes

☐ No

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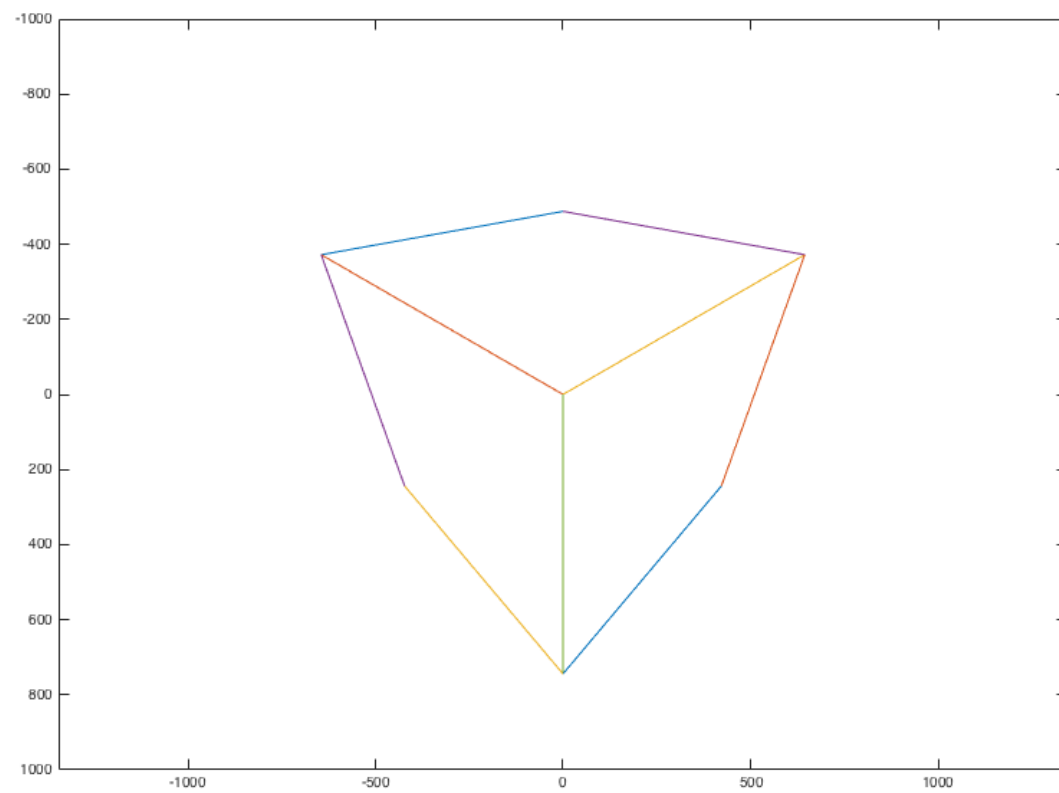
1  
point

2.

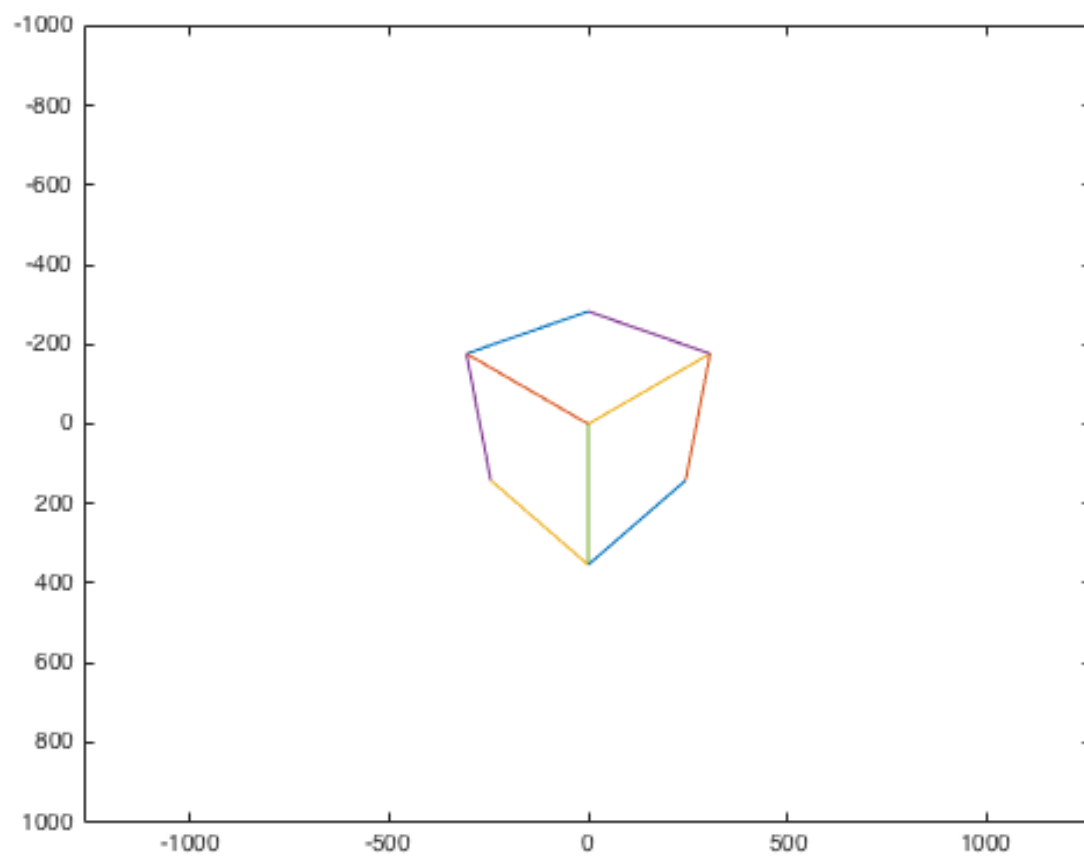
What camera change would give the following result from Image 1 to Image 2

(Hint: Notice how the vanishing points change)

[Image 1]



[Image 2]



☐ Camera Translation

☐ Zooming

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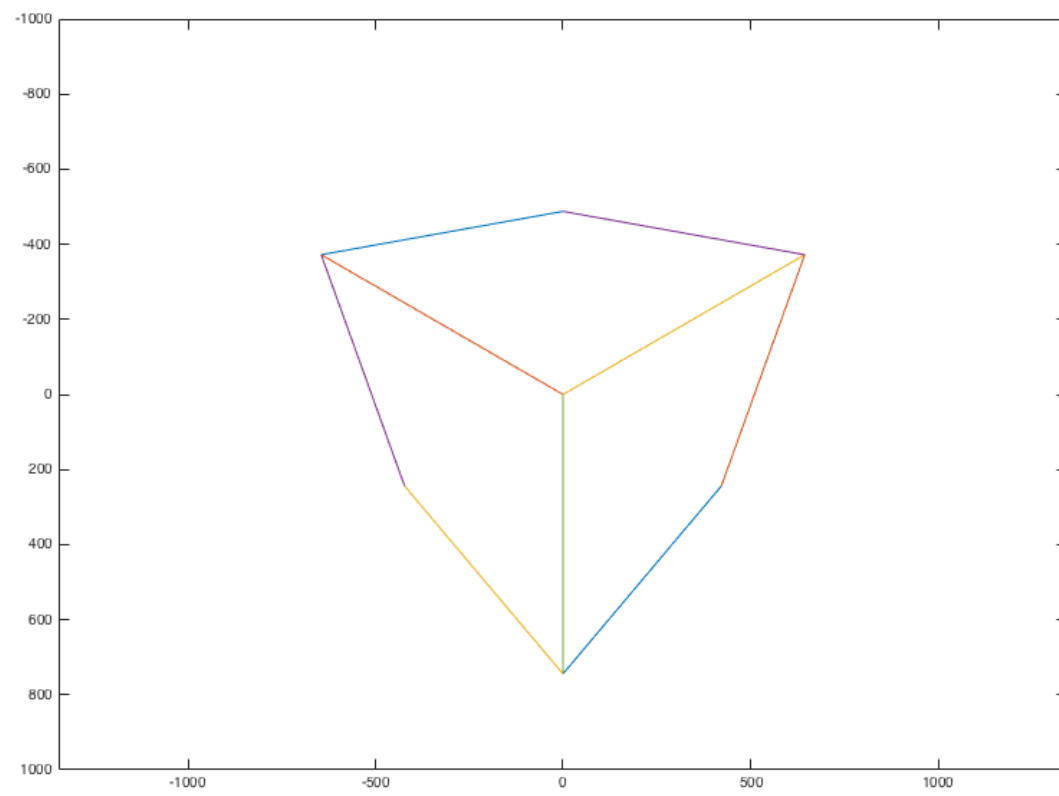
1  
point

3.

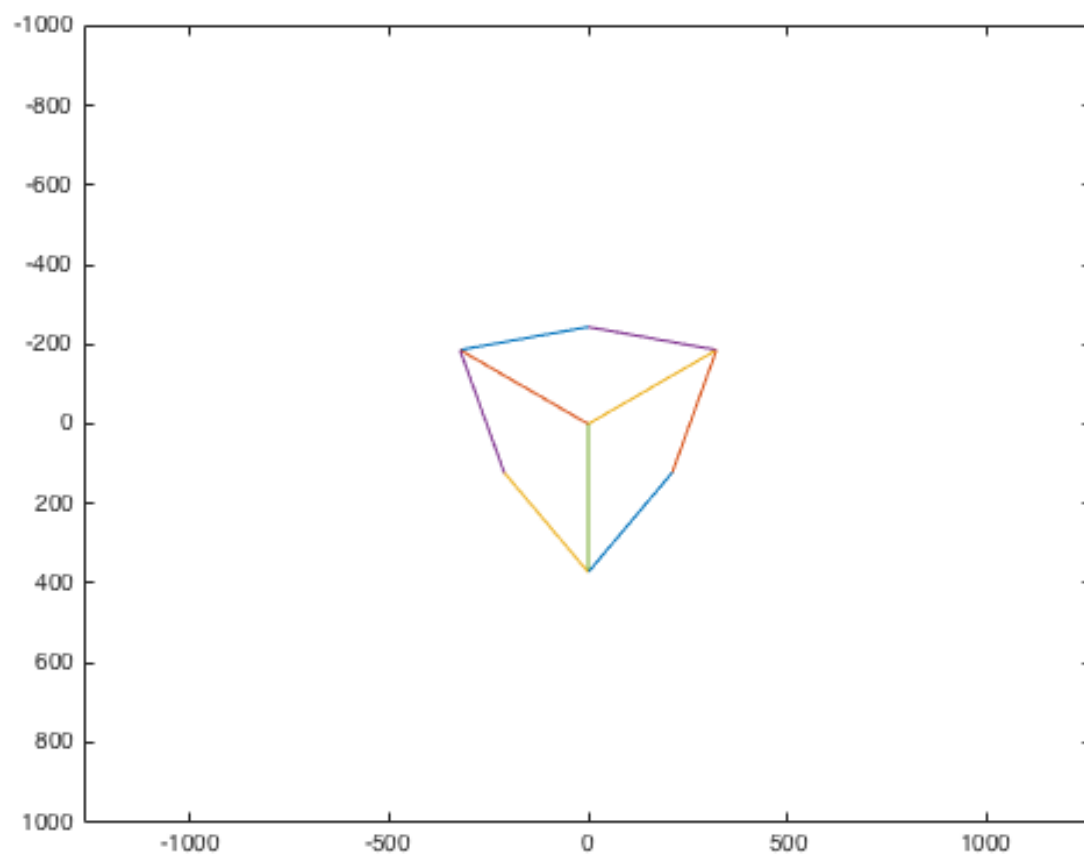
What camera change would give the following result from Image 1 to Image 2

(Hint: Notice if the vanishing points change)

[Image 1]



[Image 2]



☐ Camera Translation

☒ Zooming

1  
point

4.

The image of the rectangle-shaped facade of a building has two vanishing points, one at  $(-b, 0)$  corresponding to horizontal lines and one at  $(0, h)$  corresponding to the vertical lines. Which of the following transformations will map the facade to a rectangle. Assume that the origin  $(0, 0)$  and the point  $(1, 1)$  remain fixed.

☒ 
$$\begin{pmatrix} h - b + bh & 0 & 0 \\ 0 & h - b + bh & 0 \\ h & -b & bh \end{pmatrix}$$

☐ 
$$\begin{pmatrix} h - b + bh & 0 & 0 \\ 0 & h - b + bh & 0 \\ h & -b & h - b + bh \end{pmatrix}$$

☐ 
$$\begin{pmatrix} h + bh & 0 & 0 \\ 0 & h + bh & 0 \\ h & -b & bh \end{pmatrix}$$

☐ 
$$\begin{pmatrix} h + b + bh & 0 & 0 \\ 0 & h + b + bh & 0 \\ h & b & bh \end{pmatrix}$$

4 questions unanswered

Submit Quiz

