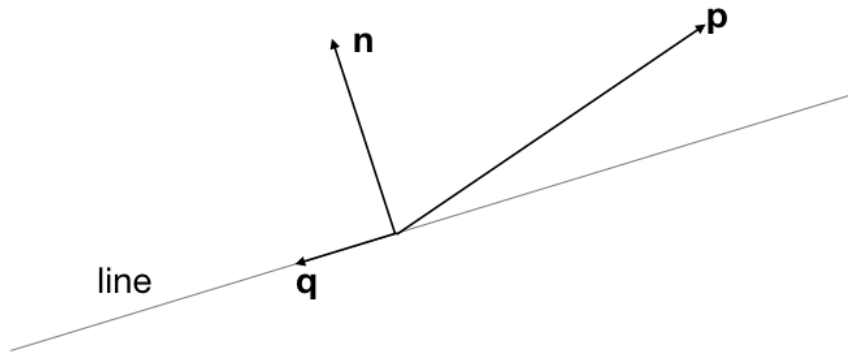


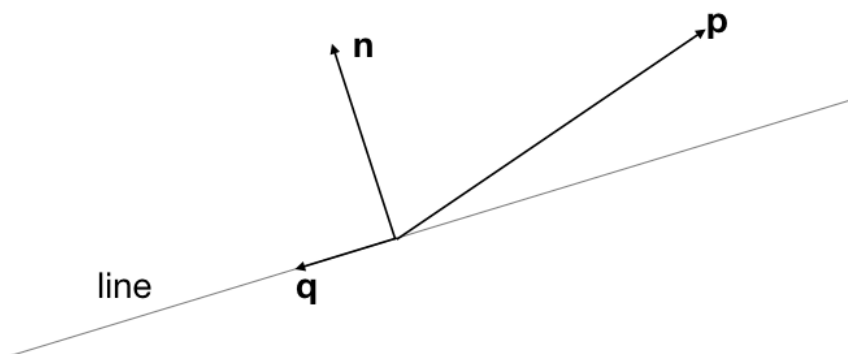
CSCI 480 / 580 – January 29, 2020 – Implicit Planes and Barycentric Coordinates

1. Consider the gray line below. Its normal vector  $\mathbf{n}$  is draw, as well as two example points,  $\mathbf{p}$  (which is not on the line) and  $\mathbf{q}$  (which is on the line). What property do all points on the line have in common?



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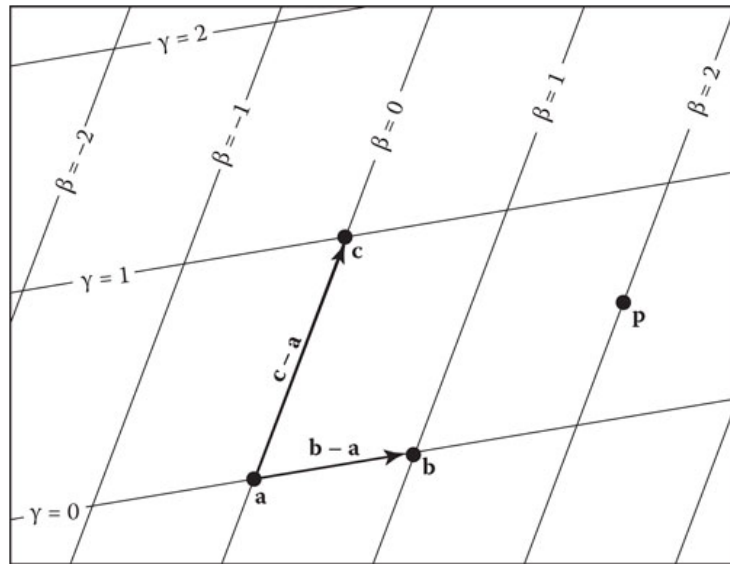


2. Consider the point **p** in the drawing to the right. Assuming it's halfway along the line segment it lies on, what is its:

$\beta$  coordinate:

$\gamma$  coordinate:

$\alpha$  coordinate:



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