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Question 4:

The two lines are parallel, both have slope – 1/2 . They do not intersect at a finite point on the Euclidean plane.

Homogeneous representation: Transpose of (1, 2, 1) and (3, 6, −2) points . Intersection point in homogeneous coordinates: Cross product of Transpose of (1, 2, 1) × Transpose of (3, 6, −2) = Transpose of (−10, −5, 0) . This is called the vanishing point for the lines. A vanishing point is a point at infinity (or an ideal point)