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- This image shows a full page of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page, providing a template for handwriting practice. There are no margins, text, or other markings on the page.

70% of the total kinetic energy of the spheres is lost as a result of the collision.

(b) Given that $\tan \theta = \frac{1}{3}$, find the value of k .

[6]

[illegible]