

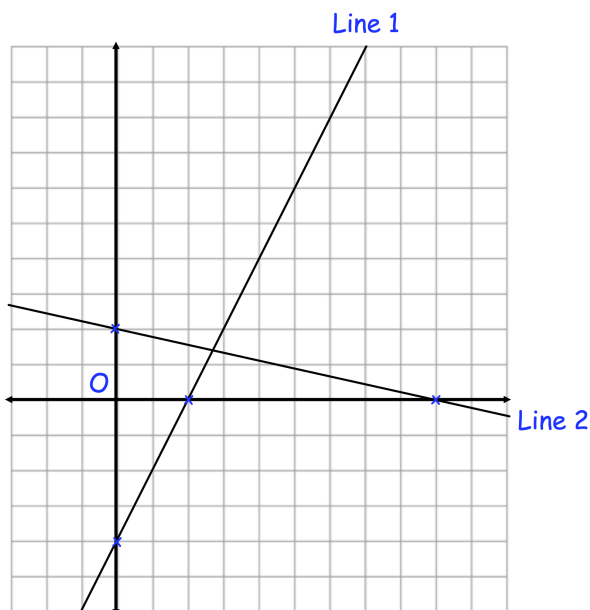


Simplify

$$\frac{8x^2 - 32}{9x^2 - 17x - 2}$$

A solid metal sphere has a radius of 4cm, correct to the nearest centimetre. The mass of the sphere is 720g, correct to two significant figures.

Work out the greatest possible density of the metal.
Give your answer to three significant figures.



Line 1 has equation $y = 3x - 12$

Find the equation of Line 2

Are the lines perpendicular?

Write $x^2 - 12x + 1$ in the form $(x + a)^2 + b$

Find the coordinates of the turning point of $y = x^2 - 12x + 1$