1st April

Using the grid, solve the equations

\[ x^2 + y^2 = 9 \]
\[ x + y = 2 \]

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**Given**

\[ f(x) = \frac{x - 9}{3} \]
\[ g(x) = 5x - 7 \]

**Solve**

\[ f^{-1}(x) = g(x) \]

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Prove that the angle in a semi-circle is always 90°

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In the diagram, the lines CE and DF intersect at G. CD and FE are parallel and CD = FE. Prove that triangles CDG and EFG are congruent.